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CHARLES MONTAGU, FIRST DUKE OF MANCHESTER.

FROM THE ORIGINAL AT KIMBOLTON.

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G : . /2/872/# : /' 12/'57 ' 79< ' 5' 12A . ' 3 -# 1'' 1' <7A ; F ? /5 '45' . /' " /A72<' 884A/' 45872 ? '' ; '# ; AC45= . 1 ?' G:1* H 62/61242 ?' 872' 215A/ # I' 1'' H 1 ' 75 1= ; '@245= '' : 72<' . 1 ' 199' 4'' 972 : 12<# 15<' . /' 91<0' ' . 199' @/' </94>/2/<' 45' . 42 0' <10' # I' : . 4A . ' 4? /' : 1'' 5//</<# H 7' =/ ' '7 ? /' 6745 '' 78' . /' <4' 6/5' 1 475# J ; 19484/<' 1 ' 7 ? /) @ ; # >. / . /2' 72' 57 # . /' ? 1 A . ' 4'' 7' 627A//< I' 19 /2' 75 1= ; ' : 1'' 1 ' . 4'' 4? /' : /5 0B75/' 0/12'' 79<# 15<' . ; '' 94/' 5/=7 41 72# : . 7' /' H' '6/A419' '/2>4A/' I' : 1'' 2/ : 12</<' : 4 . ' # A7 ? ? /5A/<' 1' '/2>4A/' 7' /? 4/ 1' 1241# : . 4A . ' /5</<' 7590' : 4 . ' . 4'' 948/

7 : ' 1A 4>/90' 19 /2' 75 1= ; ' : 1'' /5=1=/<' 45' 6 ; @94A' @ ; '45/' '' 827 ?' . /' >/20' 842' ' 0/12' 78' . /' 2/4=5' 78' . 129/'' # : /' 9/125' 84&7 ?' 7 . /2' <7A ; ? /5 '' 45' . /' /A72<' 884A/' 5' 1' 9/ /2' 827 ?' 42' /5D1 ? 45' ; <0/2<' 7' 42' 215A4'' / . /2' 79/# <1 /<' 827 ?' . 4 / . 199# /@2 ; 120' # 3 3# 1 ? 4<' @24/8' =7' '46' </ 14945=' . 1 ' . /' C45=' . 1<' @//5' A27 : 5/<' 75' . /' 62/>47 ; '' <10# @ ; ' . 1 ' . /' J ; //5# 45' /1<' 78' 612 4A461 45=' 45' . /' A/2/ ? 750# H' . /2' A . ; 2A . ' 57 ' 2/A7=54' 45=' 7 ; 2' @4' . 76' # I' ' 77<' 1 ' 1' : 45<7 : ' 78' 42' @21 . 1 ?' 4 41 ? '&'' 7' ' // ' . /' ' . 7 :) * . 1 ' . /2' 61' 7219' 15<' ? 1' C' : /2/' </8/22/<' 499' . 27>/ 4</) * ' 15<' ? 1 /2'' 78' '4 ? 4912' 4 ? 672 # * 1 ? 4<' 199' . 4'' . /2/' 4'' 57 4A/' 78' 1' 2/672 ' . 1 ' 19 /2' 75 1= ; # : . 7' . 1<' @//5' '/5 ' 7' 215A/' . /' 0/12' @/872/# 75' @ ; '45/' '' A755/A /<' : 4 . ' . /' 12@4 2120' ' /4K ; 2/' 78' '7 ? /' 5=94' . '>/' ' /9' # . 1<' 2/ ; 25/<' 7' 5=915<# @245=45=' : 4 . ' . 4 ?' 1' 627 ? 4' /' 78' 2/' 4 ; 475' 78' 7 ; 2' ' . 46' # 15<' 15' 1' ' ; 215A/' 78' 1' 6/1A/' @/45=' 1@7 ; ' 7' @/' A75A9 ; </<' : 4 . ' . /' 27 /' 15 ' ' ; ' . /' : 24 /2' ? ; A . ' ? 4' <7 ; @ '' . 1 ' ' ; A . ' 2/672 ' 4'' 7590' '7' ? ; A . ' 6794 4A19' A164 19# 15<' ? 15 ; 81A ; 2/<' '4 ? 690' 1'' H 1' 62/6121 475' 872' . /' 612 . 1 ? /5 I

7 : ' . /' 07 ; 5=' /5>70' A1 ? /' L . /' : 1'' . /5' 57' ? 72/' . 15' : /5 0B : 7M# 72' : . 1 ' 45 /994=/5A/' . /' 2/1990' @27 ; = . ' : 4 . ' . 4 ? # : /' <7' 57 ' ' ; @' /J ; /5 90' 9/125') @ ; ' : /' ? // ' G:4 . ' . 4 ? ' 75' . /' . ' 78' . /' '1 ? /' ? 75 . ' H' C/6 '1 ' 7>/2' 872' : 15 ' 78' 1' : 45< I' /' : 1'' . /2/' : 4 . ' '/>/219' 7 . /2

6;01<=5>01' +-*6,)),-?' 50' +);,;-' @*7' =,7501' ?,*' =>+' ;-' A5BO' ;CC;?),7' *??;>.,?' >4D;0EB*9' +B*+' F'050,' ?);*))' E5' =,85-,' B;9 G' 950E' +B,' +-*6,)),-?' *))>1,4' 5' *=56,' +B,-,' @,-,' +@5' @B5' @,-,' ?>?C;4;5>?' *01' @;5' @,-,' >)+>0*+,)7' *--,?+,1' *+' *6,-?B*9' 85-' *++,9C+;0E' +5' 4-5??' +);,' 4B*00,)' 4)*01,?+;0,)7

0' +B,' $+B' -' 50+*E>' 6*?' ?+;))' 1,+*;0,1' *+' 56,-' ;-' ,0-7' *)9,-' @*?' +5' B*6,' 4*--;,1' B;9' 56,-' ;0' B;?' ?B;C' B,' A5BO' 50*6,0+>-*' =>+' +B,' 4*C+*;0' 6-;+,?' 8-59' +B,' 5 60?' +B*+' B;?' ?B;C' ;?),*D7' +B*+' B,' B*?' 05' 6;4+>*)' *+' *))' 50' =5*-1' *01' +B*+' +B,' @,*+B,-' 05+' 50)7' C-,6,0+,1' B;9' 8-59' E,++;0E' -5>01' +5' 56,-' +5' -,4,;6,' *)+,-' 50+*E>' =>+' 6B*+' ?,,9,1' H>;+,' *?';9C5-+*0+' B,' @*?' >0*=),' +5' -,*4B' +B*+' C5-+' +5' ?B;C' *' ?>CC)7' 58' =,,-' 85-' B;?' 4-,@

+' +B*+' C,-;51' *' E56,-05-' 58' 56,-' *?+),' B*1' 05' ,*?7');8,' 5-' ;1),' +;9,' ;?',7,' @*?' 85-',6,-' -,?+),??)7' 4B*0E;0E' 8-59')55D;0E' 50' 50,' ?+-*0E,-' +5' E*I;0E' ;0' +B,' 8*4,' 58' *05+B,-' +,9C5-*-7' ?5J5>-0,-' ;0' +B,' +5@0' KL ;L' 50+*E>' ?,,9?' +5' B*6,' =,,0' *?' 5E;)*0+' *?' +B,' E56M ,-05-' =>+' 50' +B,' '+B' 75>0E' *)+,-' @*?' * 6*7'85-' *)*;?' @;+B' -')CB;0?+50,' *01' +B,' F' -,04B9*0G' 6;+B' *0' ;0+;9*+;50' +B*+' ;8' ;-' A5BO' 1;1' 05+' B,*-' 8-59' B;9' =7' >,?1*7' B,' B*1' =,++,-' E5' >C' +5' 50150' 0,' ?,,9?' +5' =,' B?+,0;0E' +5' *' 459,17' 58' @B;4B' 50,' B*?' 05+' 7,+' 5=+*;0,1' *' D,7' +5@*-1?' >0-*6,));0E' +B,' C)5+' 5@' *01' *E*;0' ?59,' >0)>4D7' -,04B' C-;,?+;?' =,;0E' +-*4D,1' @B5' *CC,*-?' *01' 1;?*CC,*-?' BD,' +B,' 6;-+>5>?' B,-5' 58' *' 9,)51-*9*' ;-' A5BO' ;?' 6,-7' 9>4B' +-5>=),1' +5' 4*+4B' 50,' 58' 6B59' B,' B*?' =,,0' ;085-9,1' =7' 5-1' 5))*01' N =7' +B*+' ,0-7' ;4B' 6B5?,' C,,-*E,' @*?' 05+' +@5' 7,*-?' 5)1' *01' @B5' @*?' B;9?,)8' ?59,' +B-,' *01' + 6,0+7' 7,*-?0)*+,-' +-*4D,1' =7' ?C;,?' *01' 4*--;,1' +5' +B,' =)54D' ;-' A5BO' 0*;6,)7' 459C)*;0?' +B*+' +B,' ?>?C,4+,1' C-;,?+' =7' B;?' E551' 6;))' 6;)' 05+' 459,' 0,*-' B;9' +' ;?' 58' 05' *6*;)' +B*+' B,' D05' +B,' C-;,?+' B*?' *' 8)*P,0' =,*-1' ;04B0,1' +5' *' 6B;+;?B' N ;-' A5BO' 4*005+' +-*C' *' ?);CC,-7' 8,))5@' @B5

5=915< 8 19 /2 75 1=;&" 627A//<45="<4;E45= .4" 0/12# :/ 9/125 57 ?72/ .15 .1 ./ :1" H' 10/< 45 215A/ I 5 6249 3 Q# ./ :1" H' / 82//#I 15< :1" 1=145 45 5=915< 15< 1 A7;2 5 15 45 /2A/6 /< 9/ /2 :24 /5 4 0 75/ $7.5 76/# 15< 1<<2/''/< 7 '7?/ 15750?7;" A722/'675</5 1 2;''/9'# "45= .129/" 4" </'A24@/< 1" '6/1C45= 78 19 /2&" H /OA//<45= =77< '/2R4A/) I @; # '10" $7.5 76/# :.7 '//?" 7 .1>/ @//5 1 ?19A75 /5 1 .7?/# H ./''/2>4A/ A15 @/57 .45= :72 . .1 '';A. 1 75/ A15 @245= .7?/ I H ;A. 1 75/#I .7:/>/2# :1" /' //?/< >/20 .4=.90 @0 ./ C45=# :.7# 45 10 3 Q# :1" =2/1 90 45A/5'/< @0 ./ 2/ ;25 78 72< /5@4=. 15< .4" 89// 827? @/872/ "7A./99/# :4 .7; ' 24C45= 1 @97 : ./2/ 7 2/94/>/ ./ 2/5A. 27 /' 15 "@/9/1=;/2/< @0 ./ 2/5A94 1 .794A' 75 1=; :1" '/5 <7:5 7 90?7; . 7 1AJ;42/ :.1 45872?1 475 ./ A7;9< 1@7; ./ 2/1'75 872 .4" ?4'F A12241=/) 15< ./ :1" 1AA7?6154/< @0 72< /49<45= 15< 42 $7.5 7C/ ./ 51>19 A7??15</2'B45B EA.4/8 1AA;'/< /1A. 7 ./2 78 57 <1245= 7 .1K12< ./ 89// .129/" .7;=. .1 5=94'. ' .46" :/2/ @;49 # 57 7 @/ C/6 '18/# @; 6; 45 6/249 872 ./ '1C/ 78 >4A 720 45 ./ A1;'/ 78 .;?154 0 / :1" 5/>/2 '//5 7 .1>/ @//5 '7 ?7>/< 1" 1 ./ 45 /994=/5A/ @27;=. 947?/ 7 .4?827? 1 7A./ / H .1 48 ./ '.46" @//5 97' S I :1" .4" =/5/27;" /OA91?1475# H .1< 4?@/2 /57;=. 7 @;49< ?72/ N I ./2/ :1" 2/5/:/< /O/2 475 7 ?145 145 ./ =77< 51?/ 78 5=915<# 15< /A2/ 120 7C/ :24 /" 7 ;AC45=.1?# 827? 72 '?7;.# .1 H 2 75 1=; .1" </'A/5</< 45 .4" 7:5 6/2'75 7 1C/ 6145" 45 6; 45= ./ >4A ;19" 1@712< I 5 $;5/ ./ 07;5= 8/997 : * :4 . 57 7884A/ 72 4 9/# @; /5=1=/<45 />/20 '72 78 '/A2/ 15< A7584</5 419 :72C * :1" .4?'/98 75 ./ '/1" :4 . ./ =19915 42 /520 19?/2 / <4<57 # .7:/>/2# 1AA7?6150 ./5/: /O6/<4 475 7 7A./ /# 7 ./96 7:12<" ./ ';AA/'" 78 :.4A.# 75 ./ 91' ;5<10 45 ;=;' # H 1 A7??;5475

: 1'' A/9/@21 /< 1@712< 199 . /' ' .46 '' 78 . /' 89// I' . 1 '
75 1=;' : 1'' 1'' >4=4915 ' 1'' . /' : 1'' 1A 4>/' ?10 @/' '//5'
827?' 15' 45A4</5 ' 79< @0' /A2/ 120' 7C/' 7' 75BR>10'
19 /2' .1< @//5' <45457)' : 4 .' . /' ;C/' 78' ;AC45=.1?'
45' . /' 7 : 5' 78' 72 ' ? 7 ; .) 15< . /' A7?69145/< '7'
: 12?90' 1 ' 1@9/' 78' . /' </125/'' 15< . /' 499B' ;6690' 78'
1 ' 5/A/'' 120' 627>4'475'' 45' 72 ' ? 7 ; .# . 1 ' . /' <; C/'
: 1'' ' .2/< 7' 2/ ? /<0' . /' =24/>15A/') 57' ;54?672 15 '
' /6' 1 ' .1 ' 4? /# : . /5' .4'' 1D/' 0&'' '14972'' : /2/' .198B'
' 12>/< 45' . /42' A7? ?4'' 1241 # 15< ? 72/' .15' .198B'
A. /1 /< 45' . /42' 610

944'' : 1'' . /' 91' ' =77< 789 4A/ 2/5</2/< @0' ;AC45=F
.1?' 7' . /' 5=. '.' '/2>4A/ ' 5' . /' .42< 1 4?<10'
45' ;=;' ' 3 Q# . /' <; C ' C//645=' .4'' @/< 91 /#
. /' : 1'' A199/< ;6' @0' 19 /2' 75 1=;' 7' . /12' '7?/'
=77< 5/ : '' 78' . /' 2/94/8# .7 : />/2' 12<0# 78' "7B'
A. /99/' ' </' 7; @4'/' 87997 : /< 19 /2' 45 7' . /'
A.1?@/2# 15< </' 7; @4'/' : 1'' 87997 : /< @0' 4/; F
/515 ' /9 75# : .7' . /5' 15< . /2/# 15< 57 ' 45' . /'
' 2// ' 1'' . /' 676; 912' 9/=/5< </'A24@/'' 4 # ' 1@@/< . /'
<; C/' 45' . /' 9/8 ' @2/1' # 78' : .4A .' : 7; 5< . /' 62/' /5 90'
<4/< ' ' : 1'' 1 ' 842' ' .7; =. ' .1 ' '7?/' 75/' 78' . /'
2/5A .' A7?6150' .1< 1''1; 9 /< 94/' <; C/# @; ' /9 75#
1'' ? /2A49/'' 7' .4? '/98' 1'' 7' .4'' >4A 4?# 1 ' 75A/'
1AC57 : 9/<=/< 15< D; ' 484/< . /' </// < 872' : .4A .' . /'
'; @' /J; /5 90' ' ;88/2/< </1 .

1 /2' 45' . /' 0/12# 19 /2' : /5 ' 1@271< 7' 5/=7 41 /'
: 4 .' 4A . / . /; ' 15' /OA .15=/' 78' 624'75/2'# 15< 2/ ? 14/<
.7D5/' : 4 .' 1' ' 1 / ? /5 ' 78' : 15 '' 45' . /' 89// ' 15< 12?0#
15< 15' 1AA7; 5 ' 78' : . 1 ' : 1'' @/45=' <75/' 72' 9/8 ' ; 5<75/'
@0' 45<' /0' 45' . /' 89// ' @/872/' 7A . / . /' 941 ' . /'
C45=' . /12< 827?' 75 1=;# " 546 . 1; ' /5# 15< 144/ 75' : /'
?10' A75D/A ; 2/' 827?' '7?/' 61'' 1=/'' 1<<2/'' /< 45' 1'
9/ /2' 827?' .129/'' 7' . /' 129' 78' 45<' /0# 45' A 7@/2'
3 Q' 5' .4'' 9/ /2' . /' : 24 /2' ; 2=/'' . /' /129' 57 ' 7'
'612/' . /' C?=&'' '.46'' : . /5' .4'' 15< . /' 51 475&'' . 757; 2'
: 1'' 45' J; /' 475 ' 4'' . /12 ' : 1'' @/5 ' 75' * =-*6,

< 1 /?6 ' />/5' 48' 8149;2/' 87997 : /<') 15<' .4'' '/5 4?/5 ' ?4=. ' @/' 499;' 21 /<' 45' ./' : 72<'' 78' 7; . : /99' (*

B,' 1,*+B';?',*?,1'+B*+' @5-+B7' B*01' B*+B' @-5>EB+'N
5 9,' B505>-');6,?';O' B505>-*=),' ?C5;)

/ : //5' 75<75' 15<' 124'# 19 /2' 75 1=;' 61''/<' />/2' 15<' 1575' 75' ./' C45=&'' @;'45/''' A755/A /<' : 4 .' ./' 2/94/8' 78' 7A./ /# : ./2/' 45<'/0' : 1'' 499' '/A75</<' @0' .4'' A16 145'' ' 7?/ .45=' .C/' 1' ' : 1'' 89;5=' 7' .4?' 45' ./' A7;2'/' 78' .4'' '/2>4A/# 45' ./' '.16/' 78' 1' =215 * '.12/<' @0' .4'' 07;5=/2' @27 ./2'# $1?/'' 15<' /72=/' L ./' 91 /2' ./' 15A/' 72' 7' ./' 129'' 78' 19481OM# 15<' 4 41?' 1 /0 * 78' 15' 7894A/' 872' 2/=4' /245=' .15F A/20' : 24 '# : 4 .' 1'8//' 78' 87;26/5A/' <4>4</<' 1?75=' ./45' 872' /1A.' : 24

5' 75/' 78' ./' 7AA1'475'' 1@7>/' 199;</<' 7# 19 /2' 75 1=;' : 1'' A75>/0/<' 827?' 7 : /'' 7' ./2@7;2=' @0' 4A.12<' 21 ' ./' =7>/2572' 78' ./2@7;2=' =215 /<' 21 ' 1' '18/BA75<;A' @1AC# 75' ./' ?1245/2&'' : 72<' 15<' 75 1=;&'' : 24 /5' 1''; 215A/' .1 ' ./' 872?/2' : 7;9<' A7??4' 57' 1A' 78' .7' 494 0' @0' ./' : 10' 1' /2' 21 # .7 : />/2# 75' .4'' : 10' .7?/ : 12<# 8/ '45' : 4 .' ./' .T54O' : 4 .' 1' 2/5A.' A2/ :' 75' @712<# 1 1AC/<# A16 ;2/<# 15<' A1224/<' ./2' 7' 5=915<# : ./2/' '. /' : 1'' 1<D;<=/<' 91 : 8;9' 624K/' 75 1=;' 45' 15 90' A7?69145/<' 78' .4'' @2/1A.' 78' 814 .' : 4 .' ./' 2/5A.# 15<' ./' 72<'' 7??4''475/2'' 78' ./' <?4219 0' 72</2/<' ./' 77' K/197;'' ?1245/2' 78' 7 : /'' 7' 15' : /2' ./' A.12=/' 45' ./42' 1;=;'' 62/''/5A/

./2/' 12/' : 7' '4</'' 7' />/20' ' 720# 15<' 21 ' 62/F '/5 /<' .4'' ' /' .1<' A75 21A /<# ./' '14<# B:4 .' 2' 75 1=;&'' ?15' 7' A75>/0' .4'' ?1' /2' 827?' 7 : /'' 7' ./2@7;2=' 872' : /5 0' 67;5<'' ' ./5' ./0' 1224>/<' 1 ' ./' 91 /2' 672 ' 4' 75 1=;# 21 ' 199/=/<# =1>/' .4?' @;' /5# 1<<45=# .7 : />/2# 1' .45 ' .1 ' ./0' ?4=. ' .1>/' ./' =77<' 872 ;5/' 7' ?1C/' : /5 0' 67;5<'' 1' ?15' 75' ./42' : 10' @1AC' 4A.12<' 21 ' 1<76 /<' ./' ';==/' 475' : 4 .' 1' 2/1<45/''' 51 ;219' 7' 1' 7 : /'' ?1245/2# 15<# ''/>/5' ?49/'

: 4 94 1 84519/ 4 ; : 944A94 . / 16612/5 <4884A ; 9 4/ 45 . / : 10 78 . / =/5/219 .16645/ ' 12/ ' ; 2 ? 74 ? /< 9/1' # . / W ; / /5 '10 ' 7# 45 . / A . 121A /2 78 /9/KK1# : . /2/ ; 675 1 =21A/8 ; 9 H 1= I 4 1<<2/ ' ' /< 7 . /2 1D/ ' 0# 45 . / : 72< (*

*7 75>) ; 6 ,) 50E *01 D05@ 05+ + ;)) 75> . - , +5) 1
, , 01 , * - 75> - = , *>+7. ? @501 , - 75> *-, 5) 1 N
01 @B , O B , *6.0. ? B , *+ ?B*)) 1 - *@ 75> +5 +B , ?D7
*7 75> + - *O?8 ; E> - , 1 05+ 1 ; ?8 ; E> - , 1 1 ; ,

J ; 12 /2 78 1 A/5 4 ; 0 91 /2# : . /5 ? 7512A . 0 : 1 75 4 8// 1=145# 15< . / =10 A7 ; 2 4/2 : . 7 . 1< : 24 /5 499 64/A/ : 1 1 2/ . =47 ; 2/A9 ; '/# >/20 A7 ? 872 1@9/ 45 . 4 1@@/O 78 75 74 ' / 45 215A/# . 4 A7 ? /<0 : 1 6 ; @94 ' . /< ? 4</2 . / /<4 72 ' . 46 78 15 45<4>4< ; 19 : . 7 2/>/19/< . 4 ? ' /98 57 8 ; 2 . /2 . 15 @0 . / 454 419 # H 4 C57 : 5# I '10 # H . / ' / 616/2 . 1>/ 975= '9/6 # 15< 12/ 57 : 214 ' /< 7 6 ; 75 . 1 4 ? ? 72 1 . 0 : . 4A . 57 . 45= . 1< . 4 . /2 7 </624>/< . / ? ' 78 @ ; . /42 A75A/19 ? /5 I ; @ ' / J ; /5 90 . / 45872 ? ' 944 6 ; @94A . 1 . / 'A/5/ 78 . 4 6910 H 1<<2/ ' . / ? ' /9>/ 7 . / 45F '642/< 15< ? 72/ 2/845/< 612 78 ? /5+ ' ; A . 1 12/ A161@9/ 7 @/ 21>4 ' . /< : . /5 . /0 845< 1 815A0 @24= . 15< . 4= . 1 . / . 7/@ ; . 1 =1>/ 4 I /2 . 16 . 7 ' / A161@9/ 6/2'75 ? 10 @/ /J ; 19 7 . / /5D70 ? /5 45<4A1 /<# @ ; ; AC945= D ; <= /<# ? 72/ A722/A 90 78 . / ? /24 78 . / 64/A/ 15< . / ? 7</ ' 0 78 4 1 ; . 72# 45 . 4 </ ' A246 475 78 . / 1 ' ' / ? @945= 78 . / 67/ 7 : 45 1 91 ; 2/9 A27 : 5 82754 . / . 15< 78 67997 (*

*+ 50+*E> 05@ ?+551 85 - +B +5 B ; ? +-; *)
01 1 ; 1 05+ ?5 9 >4B *? , PC , 4+ *' 1 , 0 ; *)
>+ @ ; ++7 C5)) 5 *?D , 1 B ; 9 8 ; - ?+ 58 *))
8 B , >01 , - ?+551 B ; ? 5@0 C*?+5 - *)
5 - ; 8 B , 45>)1 15 ; + .+ @5>)1 C)*; 0)7 *CC , * -
) ; , >01 , - ?+551 9 5 - , +B*0 *07 9 *0 +B , - ,
01 1 ; 1 9 , - ; + +B , = *7? *=56 , *))+B , - , ?+ S
>+ +B , 50?; , >- @*? 9 51 , ?+ *01 ?;) , 04 , 450+ , ?+

.4 D ; <= ? /5 : 1 2/5</2/< 975= @/872/ . / 6910 : 1 6245 /< 1 75 1= ; 15< 7 ? 12/ : : /2/

' : 725 824/5<' . / 91 /2 : 1' . / : 72' . 466/2 78
 ; A45<1 15< / . 1# 15< . / : 24 /2 78 . / /64 16 . ' 75
 120 ! 49 . /2' 15< 1241 /5 : 72 . * 941 ' 75 . / 91 /2
A75 1 ? 45= 94/ 81 ? 7 ; ' . ; / ' 75 1241& '7 ; 9# 45<4A1 45=
. 1 ' 4

E - , @' ?5 8*?+ @ ;+);;;;
+ =-5)6 ' + ; , ' 5>+@*-1' ?); ,)) 58 ?;0
01' B*+4B.1' ;+? ,)8 * 4); , ->=; 9 ' T

7 >27 / " 45= . 129/ '& /5 9/ ? 15 78 . / . 1 ? @ /2 15<
8/ : /2 45 2<45120# ; 25 /< 67/ 54 /< : 4 . . / ' /
: 7 824/5< ' ? 97> ? = 15< D7>419 821 /254 0 >/2/ ; 2/B
9415 7 >5' /5<) 15<0 '# . / 21>/99/2 15< 2 . 0 ? /2) 10#
. / 75= 12941 ? /5 . 4 ' 72415) 074 ? = 499 1>/515 #
15< 1 'A72/ 78 =77< 8/997 : ' 78 94 ? 4912 1 ' /
8+ , - 59 *- , @ 1; , 1 ' ;0 ! ' * 4B*0E , ' 4* 9 , ' 56 , -
+B , ' 504 , ' E*7 *)+ , - 50+*E> ' 8 , ; E0 , 1 5- ' * 6,))<
85>01 , 1 1; ?E>?+ 58 459 .+<); 8 , ' +55D B; 9 *=-5*1 ' @B , - , ' B , '
6*01 , - , 1 50 +5 59 , ' ; 0 +B , ' *)) , E , 1 B5C , ' +B*+ B , ' +B , '
=>?7 4*6*); , - *01 C5 , + ' +B , ' 6;+ +B , ' E*))*0+ ' +B , ' 9 *0
*=5>+ +5 60 9 ; EB+ , 88 , 4+ * - , 4504;); *+; 50 =, + 6 , , 0 +B , ' +@5
4); >-4); , ? , 85- , ' B , ' - , *4B , 1 +B , ' *04; , 0+ 4; +7 ' +B , ' 8*4+ 58
B; ? 4506 , -?; 50 +5 +B , ' B>-4B 58 59 , ' 6*? D05@0 ' *01
B; ? 50@*-1 J5; >20 , 7 *??>9 , 1 +B , ' *CC , *-*04 , ' 58 *+-; >9 CB '
, ' 6*? E- , , +, 1 =7 *) +B*+ 6*? D05@0 +5 = , ' 05=), '
*01 *) +B*+ ? , , 9 , 1 +5 = , ' B5)7 ' 5C , ' *01 4*-1; 0*) ?
E)*11 , 0 , 1 B; 9 6;+B =*0H>, +? *01 = , 0 , 1; 4+; 50? C - , M
4 , 1 , 04 , ' @*? * 6*-1 , 1 +5 B; 9 = , 85- , ' *) 5+B , -? 58 B; ?
45>0+-7 9 , 0 ' @B*+ , 6 , - 9 ; EB+ = , ' +B , ; - -*0D *+ +B , ' *C*)
5>-+ *01 6B , 0 50 B; ? - , +; 9 ; +5 50150 ' B , ' 6*?
CC5; 0+ , 1 B 9 =, -)*; 0 +5 +B , ' U>, , 0 ' +B , ' 4504)>?; 50
@*? C-5=*=)7 *--; 6 , 1 *+ +B*+ ' @B*+ , 6 , - 9 ; EB+ = , ' +B , '
0*+>- , ' 58 +B , ' 9 ; ??; 50 , 0+->?+ , 1 +5 B; 9 ' B , ' B*1 *445 9 M
C); ?B , 1 ' ;+ 6;+B C , -8 , 4+ ?>44 , ??

. /2/ 4 57 <7 ; @ ' . 1 ' . 4 ' ; AA/ ' : 1 =2/1 ' 45
214 '45= A75 24@ ; 475 1 ? 75= . / 7 ? 15 1 . 794A 7
/51@9/ . / C45= 7 /O6/9 . / A7 ' 5 . 4 . / 6*?
14</<@0 42 " /5/9 ? 4=@0 @ ; ' ? 4 ' '475 . C/ . / ' /# 45

<4<s 57 s 872=/ s . /s : 72<'s 78s .4's @27 . /2# .1 s : .49/s . /s 6/2'/>/2/<s 45s .4's 7 : 5s 814 .s . /s : 7 ; 9<s @/s ? 1</s ? ; A.s 78# @ ; s .1 # 75A/s 1s A75>/2 # . /s : 7 ; 9<s @/s 2/1 /<s BO>4 .s A75 /?6 s ?4<s . /s .12' . /2s 2/1 ? /5 # : . /5s ; 5</2s . /s /OBJ ; / /5&'s A12/# . /s 6772s 15<s 'A15 0s 877<# . /s @/<# ?1</s . /s 5 ; 2'/s 78s ; 52/' # . /s 'A725s 78s 91AJ ; /0's 1 ; = . s 7s 8945=s . /42s A725# . /s < ; C/s C/6 s 45s ? 45<s . /s A7 ; 5'/9s 78s .4's <D55=s 81 . /2# 15<s : 7 ; 9<s 57 s @ ; <=/s 15s 45A.s 7 : 12<'s . /s =719s : .4 . /2s . /0s '7 ; = . s 7s <24>/s .4? s s : 1's . /5s .1 s . /s : 1's '/5 s 7s . / s @@7 s 78s 7 ; 74'/# : . 7# ; 51@9/s 7s ' ; AA/ /<s : 4 .s .4?# 1<>4'/<s .4's @/45=s 215'8/22/<s 7s . /s 799/=/s 78s $/' ; 4 ' s + s : 1's 827?s . 1 s 81 /s .1 s 2?75<# : 4 .s ? ; A.s 27 ; @9/# ; 9 4?1 /90s 2/'A ; /<s .4?# 15<s . /s ' 15A.s 8 9/s < ; C/s : 1's ' /<81' s 45s . /s 814 .s 499s . /s 81 19s 54=. s 78s 33 # : . /5s . /s <4/<s 78s ' ?199F 67O# .27 ; =.s . /s =2/1 s 5/=94=/5A/s 78s .4's <7A 72'# 15<s .4's @7<0# @27 ; =. s <7 : 5s 7?/2'/ s 7 ; '/s ' 1 ; &'# : /5 s ; 6s . /s 24>/2s @0s 72A.94=. s 7s @/s @4 ; 4/<s 1 s /' ?45' /2 s .4's 4?/# 2?75<s : 1's 45 /2/' /<s 45s ?72/s .15s 75/s 6/2'75s 45s 215A/# 1s 07 ; 5=s 91<0s 1's : / s 1's 1s 07 ; 5=s < ; C/(s * s . /s 872?/2s 57 s ; 5A74?/A /<s : 4 .s . /s 81?490s 78s 75 1=; s . /s 91<0s 45s J ; /' 475s : 1's 1<0s '1@/991s <A. s . /5s 2?75<s : 1's A7 ; 2 45=s . /s <1 ; =. /2s 78s . /s 129s 78s /'?75<# '1@/991s 4A.s : 1's . /2s 844/5<s 15<s A7?615475 s 5s . /2s 1 21A 475's 2?75<s 872=7 s 872s 1 : .49/s .7'/s 78s .4's 8 ; ; 2/s @24</s) @ ; s 57s 75/B.1<s ' ; A.s =77<s A1 ; '/s 7s 2/=2/ s 72s />/5s 7s A ; 2'/s . /?s 1's '1@/991s 4A.s ./2'/98# : .7'/s 97>/B61''1=/'s : 4 .s . /s ' ; 4 72s 78s ./2s 824/5<s 2/5</2/<s 4 s 5/A/''120s 872s ./2s 7s : 4 .<481 : s 872s 1s 4?/s 7s 215A/ s . /s 188142# .7 : />/2# : 1's '7s <4'A2// 90s .15<9/<# .1 s 2?75<&'s : 48/s /5D70/<s 1s .1660s 4=57215A/# 15<s . /s ? 4?1A0s 78s . /s : 7s 91<4/'s 2/?145/<s ; 5@27C/5s .27 ; =.s ?150s 0/12' s / /2's 2/8/2245=s 7s . /s 45 4?1A0s 78s 2?75<s 15<s 1<0s '1@/991s 4A.s .1>/s @//5s 2/A/5 90s <4'A7>/2/<#4 s 4's '14<#1 s '' 49C/550# 15<s 45s . /' /# 4 s 4's 1<</<# H 6772s /99/Is 4's ?/5 475/<# A7?61''4751 /90 s s ' 720s 4 s : 499s @/s 872s 7 . /2s 6/5's 7s /99)s ?/15 : .49/# : 5

!

9/ /2# 15<' ?;'' /125/' 90' </'42/' 07;' .1'' ?10' .1>/'
./' .198B0/12&" 2/5'78' :.1'?0'81./2'.1.'9/8'?/#1'
7;2' 1<0'<10#:./5''A75A/4>/'4'4"'<;/''1?'=745='
@1AC' 7'94>/'1"'J;4/90'1"''A15'45' 215A/#:./2/''.76/'
7'./12'827?'07;2' 72<'.46#2/'45='07;2' 72<'.46&"
.;?@9/''/2>15'15<'?7''188/A4751/'@27./2#

'''!+B',=-**;7G

./'5/O'9/ /2#19'7'1<<2/''/<' 7'./' 129'78' 15F
A./' /2#4"'827?' 75 74'/#@;'4":4.7;'7./2'<1/'
.15'H' 75 74'/#./'.'78' 6249I

'' U'''''

''' *'.1>/'2/A/4>/<'07;2'#:./2/45'07;'<4<'
?/'./'81>7;2'7'1<>4'/'?/'7'</'4''45'?0'6;267'/'78'
A7?45='7' 5=915<') 07;'?10'''//#@0':.1'.1.'
87997:/<''45A/#'.1<'.9/'627>4'475'78':.1'.1.'
.166/5/<''45A/#7./2:4'/''.7;9<'57'.1>/'62767'/<'
4) 15<'4'?10'<4'A2/<4'7'07;'./'7645475'.1''./12'
4"'A;22/5'78'?0'#@/45='624/''''.7;9<'57''7''775'
.1>/'.7;=.'7'@/'24<'78''A.'15'.757;2#48''.1<'.1<'
4#1"'?0'A7?45='45 7' 5=915<'?;''.1>/'/5<15=/2/<'
?0'@;'45/''"'.1'2/J;42/<'4'':1"'./''19/'78'?0'
.7;'/'15<'./'<4'A.12=/'78''7?/'</@'':.4A.'07;'12/'
/5=1=/<'45')'<7;@'57'@;'./'./22488' 122/':499'
?1C/'.4"'7:5'91:'1'';49<.199'1=145''?/#88'07;'
166/12'57'A75A/25/<'45'4'72'.4"'@77C'</@''7'
57'1AC57:9/<=/)''10#./'?7''612'78'4':1"'A7?F
624'/<'45'./'@75<':.4A.''</'42/'7'610#@;'49'./'
'.7;9<'</?15<'45 /2/''';675'4#'45A/'./'4?/'4':1"'
<;/#4':7;9<'<7;@9/'./'6245A4619#./2/872/''6210#?0'
72<#@245='.4?'7'2/1'75'45'.1)15<'./2/'4"'-
£''/4K/<#7;''78':.4A.'7'610'.4?'15<'?0'1<0'49<'72'
./'@12@/2#/72<4'&"LSM@27./2#./'</@'4"'7'?/'
'1?''';2/''7:/<'.4"'@27./2'57'+'45'./':729<'
./2/872/''6210#?0'72<#.1>/'1'A12/'78'.4''4>/

?/ 9/1>/ 7 788/2 07; ?0 6210/2'# 2/' 45= 07;2 ?7' 188/A 4751 /@27 ./2 15< .;?@9/ '/2>15 #

F

5< ./2/ 1 9/ /2 78 7@/2 0<5/0# '/A75< 129 78 /4A/' /2# 1<<2/''/< 7 72< 15</>499/# ';@'/J;/5 90 '/A75< 129 78 15A./' /2# 45 /@2;120 3 B ?10 @/ J;7 /<# 872 ./ '1C/ 1 9/1' 78 75/ 6121=4&16./ 45 2/8/2/5A/ 7 19 /2 75 1=;# 72< 15</>499/&" @27F ./2 ./ 6121=216./2;5' .;'(*

H '.7;9< @/ =91< 7 ./96 07;2 @27 ./2 7 1 A12F <4519&".1 # 872 : 4'./ .4?>/20X:/99 150 : ./2/ @; 45 5=915<# 15< ./2/ 77# 48 ./ :/2/ 7;2 @27 ./2 1' :/99 1' 07;2') @; .1>/ 57 67 :/2 45 ./ 75'4' 72O# 199 .7'/ 78 .1 <Y6/5<15A/ '.;5 ?/ 94C/ ./ 691=;/) E^5< 48 ./0 78 ./ 7 ./2 '4</ .45C 4 78 ?/ 77# .1>/ 04 9;AC# @94 <7 57 A12/# 872 45 </'64 / 78 ./ :729<# :499# :4 . 7<&" @9/''45=# .>/ 15< <4/ 15 .75/' ?15# 15< 07;2 72<'.46&" @27 ./2 15< .;?@9/ '/2>15 #

./ @27 ./2.77< ./2/ 199;</< 7 :1' '4?690 75/ @0 A7;2 /'0 72< 15</>499/&" :48/# ./ '/A75< 78 84>/# :1' 1 <1;=./2 78 7@/2 4A.# 129 78 12:4AC# 15< /4A/' /2&" :48/ :1' 727 .0# <1;=./2 78 ./ 129 78 72 .;?@/2915<# :.7'/ :48/ :1' ./ '4' /2 78 /5/976/ 4A.# 7;5 /''' 78 12:4AC ./ 129 78 /4A/' /2# :.7 :7;9< .1>/ 627A;2/< 1 A12<4519&" .1 872 19 /2 75 1=; .1< ./ 7590 67''/''/< ';884A4/5 4589;/5A/# :1' ./81 ./2 78 9=/2575 0<5/0# 15< 78 ./ .15<'7?/ /520# :.7 :1' @/97>/< @0 .Y ;A./''' 78 72C# 15< :1' A2/1 /< 129 78 7?5/0 @0 " 45= 49941?

7 2/ ;25 7 19 /2 75 1=;# :/ .1>/ 7 7@'/2>/ .1 ./ 76672;54 0 78 >4'4 45= 5=915< :.4A. ./ '7;=. : ./5 4 :1'<4884A;9 7 7@ 145# ./ 4'' '14< 7 .1>/

.1>/' A1224/<' .4?' 7' 5=2915<' : 4 .' ./2' 75' ./2' A7?454S'
7>/2' 7' >4'4' ./2' '75# @;' 75 1=;' ./5' </A945/<' 7'
1AA7?6150' ./2' /' .1<' 57' </'42/# 1AA72<45=' 7'
1<1?/' </' 7 />499/# 7' ?1C/' .4'' 872 ;5/' 45' 5=915<'
4'' 1 1A.?/5 # '7' .1 ' 91<0' 1'' /2 '# : 1'' 45' 215A/# 7'
55/' 78' ;' 241# 15<# '. /' 1<<'# H' 7' '10' ./' 2; .' 78'
.4?# .4'' 2;/' 64/ 0' ?1</' .4?' 45' 199' .45='' 15<' 45' 199'
A7;5 24/'' >/20' <4'45 /2/' /< I

7 : 12<'' 4?@79 75' ./5# 72' />/5' 7 : 12<'' 5=915<#
./' <7/E'' 57 ' ''//?' 7' .1>/' 1=145' <42/A /<' .4'' ' /6'# @;'
./' : 1'' 57 ' : 4 .7;' 5=94'.' A7?615475'' 45' .4'' '/98B'
4?67'/<' /O49/' $7.5' 4=@0# 1' 074?=/2' '75' 78' ./' 129'
78' 24' 79# 15<' /5/219' 78' ./' 72'/#;5</2' 76/ 7 : 5#
: 1'' : 4 .' .4?' 1 ' 75 74'/' ./_A1>194/2' .1<' 94>/<' 7@F
'A;2/90' 45' 5=915<# 18 /2' ./' 8199' 78' ./' 9;5=# 15<' ' 499'
?72/' 7@'A;2/90' 45' 215A/# @;' ./' ?1</' .4'' : 10' 7'
75 74'/# 15<' ./2/' 87;5<' 1' 2/' 45=B691A/' 45' .4'' : /120'
649=24?1=/' ./' /OBA1>1920' 9/1</2' ./2/' 914<' <7 : 5' .4''
79<' 814 .# 15<' ./' A1>194/2'' 78' .4'' 4?/' : .7' 21>/99/<' 7'
124'' @0' : 10' 78' 75 74'/' : /2/' /<484/<' 72' 7 ./2 : 4'/'
188/A /<# 75' @/.79<45=' ./' 75A/' 84/20' 9/1</2' 45' 1' A.12=/'
78' .72'/# =21>/90' A/9/@21 45=' ?1'' 45' ./' A.16/9' 78' ./'
5=94'.' 5;5'

8' 1' 215J;49' 948/' @/' 1' .1660' 948/# 19 /2' 75 1=;'
87;5<' .16645/''' 1 ' 75 74'/' 4 9/' ?72/' 4'' C57 : 5' 78'
.4?' 499' 3, ' 5' .1 ' 0/12' ./' 6;@94'./<' .4'' 215'91F
475' 78' 7'';/ &'' V O67'4 475' 78' ./' 7A 245/' 78' ./'
1 .794A' .;2A.' 45' ./' 745 '' 78' 75 27>/2'0' : 4 .'
.7'/' 78' ./' 62/ /5</<' /872?1 475 & ./' @77C# 6245 /<'
1@271<# : 1'' 45 27<;A/<' 45 7' 5=915<' 5' ./' 62/81A/#
./' 6214'/'' ./' 1; .72# .4'' : 72C# 15<' .4'' 7@D/A) 15<'
18 /2' /O62/''45=' 1' .76/' .1 ' 5=94'.?/5' ?10' 62784' @0'
4 # ./' 1<<'' (* H' 0' .4'' ?7 4>/' ' .1>/' @//5' 6/2';1</<'
7' 61''' 45 7' ?0' A7;5 20' .4'' 872/4=5' A7?? 7<4 0# : .4A.'
94C/' 1' </94A1 /' : 45/' 78' ./' '1?/' 691A/# ?10' 97'/' '7?/F
: .1 ' 78' ./' 51 ;219' '6424' 15<' J;4AC5/''' @0' ./' 215'F
672)' 0/' ' ?10' 62/';?/' .1 ' 4' 2/ 145/ 94' 1 ' .7'/

1?@1''1<72# .1 ' ./' .1<' 7590' '40' <10'& 627>4'475' 9/8 # 15<' .1 ' ./' A7;9<' :14 '@; ' 1' 8/ :' <10'' 975=/2
8 /2' '7?/' </910# ./' @7<0' 78' 42' '11A' 1224>/<' 1 ' ./' A71' # 15<' :1'' 6; ' 75'@712<# 57 ' ./' /5 .' 94/96# @; ' ./' '';215A/#;5</2' ./' A7??15<' 78' 9;?9/4=. ' ./5' 127'/' 75/' 78' .7'/' <4884A;9 4/'' :.4A94' 78 /5' '6215=' 827?' ./' A914?' ?1</' @0' 5=915<' 7' .1>/' ./2' 891=' '19; /<' 75' ./' '/1'' :.4A.' '. /' A199/<' ./2' 7:5
1C/&'' @7<0' :1'' 2/A/4>/<' 75'@712<' ./' '';215A/# 5/12' 7;97=5/# 75' ./' - .' 78' $;90 ' 5' ./' 3 .' ./' 8;5/219' 61''/<' .27;=.' 1914'' 71<' ' ./' =7>/2572' 78' ./' 7:5# H'62/ /5<45=' 1' =2/1 ' </'42/' 7' <7' ./'@7<0' .757;2#I' A1;'/<' 199' ./' 2/5A.' >/''/9'' 45' ./' 71<'' 7' 1C/' 45' ./42' A797;2'' .4'' 627A//<45=' :1'' ?;A.' 7@D/A /<' 7'@0' ./' 2/5A.' A7??15</2')'@; ' 45'1AC57:F 9/<=?/5 ' 78' ./' A7;2 /'0# 9;?9/4=.' H'@/' 7:/<' '7?/' 67:</2' 75' ./' 2/5A.' 891='#I' 1 ' :.4A.' 2/ ;25' 7' ./42' A7;2 /'0# ./' 2/5A.' A16 145'' H=2;?@9/<' /O 2Y?/90 I' ./0' 627@1@90' :7;9<' .1>/' 62/8/22/<' .1 ' ./' ' 24C45=' 78' ./42' 891=' '.7;9<' 61''' ;52/?12C/<# 1'' 48' 4 ' .1<' 57 ' 7AA;22/<
' :1'' 7 ./2:4'/' :4 .' '7?/' ; A.' ?/5B78B:12 ' 'A7??15</2'' 57 ' 7590' '.12/<' ./''/5 4?/5 '' 78' ./' 2/5A.#@; ' H'/5 ' :72<' .1 ' ./0'C5/:' 57 .45=' :.0' :/' '.7;9<' </?15<' 150' ';6/24724 0' 75' .1 ' '4</' 78' ./' '/1')' :4 .19' .2/1 /545=' 7' :/12' ./?' 891='' ./2/# 1'' :/99' 1'' :/ I' 9;459/4=.&'' 624</' 15<' 61''475' :/2/' 4??/<41 /90' 127;'/<' 9 .7;=.' ./2/' :/2/' /4=. ' 78' .X'/' ?/5B78B' :12# ./' H'/5 ' 1' A77945=' A12<' I' 7' ./' ; A.' <?4219# 15<' 45872?/<' .4?' 78' .4'# 9;?9/4=.&'# H'2/''79; 475#I' 45' A1'/' ./' L ./' ; A.' <??19M' '.7:/<' 1' ; A.' 891=' ./2/' L .1 ' 4'# <4<' 57 ' 842'' ''19; /' ./' 5=94'.' '.46' 45' 61''45=M# ./' :7;9<' '45C' .4?# 72' '45C' @0' .4? I' .4'' '6424 /<' 45 4?1 475' H A1;'/<' .4?' 7' C//6' .4'' A797;2'' A97'/)I' 72# 45' 7 ./2' :72<'# ./' 1<?4219' 97:/2/<' .4'' 891=' :.49/' ./' </1<1?@1''1<72' 8971 /<' @0
5' ./' 2/4=5' 78' .129/'' # 157 ./2' 891=' 189142' /OA4 /<

<7K/5 ; A.=199/0'# 15< 1'' ?150 2/5A.? /5B78B:12# ;5</2 ./ =19915 15< '1;A0 !4A/B <?4219 78 215A/# 7?454J;/</ !4A ;245= ./ /4=.. 7;2'' 7AA;64/< 45 A27''45= 94 9/ ?72/ .15 1 'A72/ 78 ?49/'' 78 .1 .J;4< :10 75 1 ';??/2&'' <10# 7?454J;/ C/6 .4'' 891=89O45=# 5/>/2 75A/<46645= 4 #1''@0 A74? /'0# A;' 7?# 15< ./ 5=..'.' '7>/2/4=5 0 7>/2 ./ 271< ./ :1'' =745=# ./ :1'' @74?< 7 <7 ./ 891=BA16 145 :.7 A1224/< "7'50 1''.4'' =;/' :1'' ?;A.>/O/< 1 .4'' 91AC 78 6794 /5/''' 75 ./ 612 78 ./ 2/5A.?15# @; ./ >/O1 475 A.15=/< 7 :21 .#:./5'./ '1:' /!4A '14.5= 45 7 7>/2 71<'' 1.J1< 78 .;5# :4 .' .1 891;5 45= 2/5A.@155/2 ' 499 =1490 89O45=# ;5<466/<# 1978

2/''/5 90 /!4A#.1>45=915</<';A.78 ./57@9/A7?F 6150 1''.1<''149/<:4 .4?#61'''/< ./ 5=..'.891=B'.46# 15< '19; /< ./1?@1''1<72#:.7 '77< 75 ./J;12 /2F </AC#:4 .72<515A/ 15< @0 1 <4'6910 78 ./ 27019 @155/2 1 ./?145 .4'' 1A ./ /@;994 475 78 ./ 5=..'.?15 27'/ 7 4 '' ./4=. /215 7;.4'' 848 0 =;5'' ?/51A45=90 1 /!4A# 15< 842/< 75/ 1 9/1'' 78 ./?' 1 ./ 2/5A.' <?4219) :./ ./2''.7 /< 72 57 # A1557 57:'@/ </ /2?45/<) @; ./ ;62712 :1'' '7 =2/1 .1 7'50# :.7 .1< @//5 62/>47;'90 A.12?/< :4 .' ./ A7;2/'0 78 ./ 5=..'.?/5 :4 .' :.7?' ./ '149/<# :1'' 57:' 1'754'./< 1 ./42 8;20# 15< .1< ./ =2/1 /'' 27;@9/ 45 ?1C45= .4?''/98 ./12<# :./5 /5</1>7;245= 7 /O69145 .1 /!4A .1<'@//5 45 /5<45= '79/90 7 <7 .4?' .757;2# .1 ./ 1<?4219 ?/15 57 788/5A/ 7 ./ 5=..'.# 15< .1 ./# ./ 1?@1''1<72# :7;9<=4>/ 1 '4=519 1 :.4A.' ./ 2/5A.@155/2 :7;9< @/ 97:/2/< 1'' 15 1A 78 A7;2/'0 7 ./ 5=94'.' 891= 8971 45= 7>/2 4 '' 7:5 :1 /2'# 45 ./ 51227:''/1' ./ 5=94'.' '14972 :1'' 166/1'/<# @; /A49 87;5< 4 /O6/<4/5 7 :24 / 7 42 .7?1'' 1220# ./ 2/62/F '/5 1 4>/ 78 ./ '7>/2/4=5 78 5=915<# 1 124'# 7;A.45= :.1 ./ A199/< H ./ '?199 1AA4</5 8199/5 7;'45 7>/2 71<' I 8 /2 51221 45= ./ 45A4</5 '' 78 ./ 975=

>701=/ 7>/2 ./ @24/8 :10# /A49 '10'# :24 45=' 75 $;5/ # 3 # .1 @0 <4'A.12=/ 78 A15575 ./ 5=94'. ;
A16 145 A7?6/99/< ./1<?4219 H 7 ' 24C/ .4'891=# :.4A. ?1</ </ !4A 2/ ;25 .7?/ 1 94 9/ <4'A75 /5 /<90 .4'#I 1<<' /A49# H4' ./ 2; .78 ./ ?1 /2# 19 .7;=. 4 @/ 57 :72 .' '6/1C45=' 78# 0/ 48 4 @/ 977C/< 45 7#

7 <7;@ :1' /O62/''/< 1' 7 ./ 627624/ 0 78 ./ 1A 75 ./ 612 78 ./ A16 145 :.7 ' 77< ;6 15< ' 2;AC .12< 872 ./ <4=54 0 78 .4' A7;5 20 15< '7>/2/4=5 1' .1 78 @7 .' :1' ./5 7 @/ ?145 145/< /A49 :7;9< H ' 15< ;675 4 #I 15< ;6.79< ./ </</ 15< ./ <7/2

1< ./ 87;2 .' 129 78 15A./' /2 2/J;42/< 4 # ./ .1< 5;?/27;' /O1?69/' 78 .7 : ./ 79< 5=94'. A.1B 21A /2B15< 79< 5=94'. 624>49/=/' : /2/ 7 @/ ?145 145/<) 15< :/ '.199 845< .4?' <745=' @7 .' :4 .' <4=54 0 /872/ :/ A7?/ 7 .4'# .7 :/>/2# :/ .1>/ 1 8/ : : 72<' 7 '10 78 .4' 81 ./2# 7@/2 # ./ .42< /129# 78 :.7?' ./2/ 12/ @; 8/ :' 499;' 21 475'' 1?75=' ./ "4?@79 75 616/2'#

7@/2 # .42< 129 78 15A./' /2# :.7 .1< 872 .4' ?7 ./2 55/# ./ <1;=. /2 78 7@/2 4A.# 129 78 12F :4AC# ';AA//</ .4' 81 ./2# 7 :.7?' ;25/ 1997:'# 48'57 =2/1 612 '# 1 9/1' =2/1 >42 ;/ 15< =/5/27'4 0# 45 3, ./ </ 149' 78 .4'?12241=/# :./5 72< 15</>499/# :4 . 55/ /9>/2 75 .1>/ @//5 192/1<0 =4>/5 129 7@/2 :1' 57 '7 <4' 45=;4'./ < 45 .4?'/98# 1' 45 .4' .42<# @; /9</' ';2>4>45=# '75 .129/'# ./ 842' ;C/ 78 15F A./' /2 9.7;=.' .79<45=' 57 .4=./2 7884A/ .15 75/ 78 ./ 972<' 78 ./ C45=&" @/<A.1?@/2# :4 .' 15 155;4 0 78 D # ./ :1' ';884A4/5 90 4589;/5 419 7 A1;'/ 944' C45'?/5 7 6/4 475 872 .4' 81>7;2 5/ 78 ./''/# :24 45=' 827?' 75<75# 45 A 7@/2 3, # 7 ./ /129# ./5 1 "4?@79 75# ;5A75'A47;'90 499;' 21 /' :7 6.1'/' 78 A.121A /2# 75/ 78 .4?'/98#a./ 7 ./2 78 ./ 4?/'' H '.1>/ :24 :7 9/ /2' 7 07;2 72<'.46#I''10' H .129/'

75 1=;#I H@; .1>/ 2/A/4>/< 57 15' : /2# '7 .1 1? 18214< ./0 5/>/2 A1?/ 7 07;2 .15<'#@; .76/ .4'' ?10#@/A1;'/7;2'.46 4'' 199 45 1 2/1<45/''#15< 1? ';2/ 4 :499 57 @/ 975=@/872/ :/ 12/ 72</2/<7;# ./2/872/ :7;9< </'42/ 07;2 72<'.46 .1 07; :7;9< 2/ ;25 ./ ?75/0# 1'' '775 1'' 67''4@90 07;2 72<'.46 A15# 15< :7;9< @/= ./ 81>7;2 78 07; 7 :24 / 7 2# 72</5# .1 ?0 >701=/ 7 7 /5@/2= ?10 @/ ' 766/<# 872 4 4'' 1 >/20 @1'/ >701=/# 15< =7 ;5</2 1 ?15&' A7??15< :.7 :499 9/ 57@7<0 =/ 150 .45= @; .4?'/98) @/'4</'# 48 ./ :1'' 5/>/2a '7 C45<# ./2/ 4'' 94 9/ 7 @/ =7 # '7 .1 .76/ 07;2 72<'.46 :499 ;'/07;2 45 /2/' 7 <4>/2 .4'' >701=/# 15< =/ ?/9/1>/ 7 A2;4'/45 ./ .155/9# :./2/ 1? />/20 <10 45 ./ :10 78 =/ 45= '7?/:.1 # 872 57 : .1 7;2 '.46 4'' A9/15# <7;@ 57 @; '.199?// :4 . '7?/6;2A.1'/ 210# ?0 72<# <7 07;2 /5</1>7;2'' 1'' '775 1'' 07; A15# 872 C57 : 48 07;2 72<'.46 ' 42'' 45 4 J;4AC90# 07; ?10 .45</2 4 # 15< 4 ?10 @/ 7 ?0 1<>15 1=/# 15< />/2 /5=1=/ ?/ 7 @/ 07;2 72<'.46&' 7@/<4/5 ''/2>15 I

./ /129# 7 :.7? ./ 1@7>/ '45=;912 ?4''4>/ :1'' </'61 A./<# <4/< 1 75 6/94/2 45 215A/# 45 ./ 0/12 3Q /:1'' ';AA//</< @0 1 '75 :.7'/ <4' ?A 475 :1'' ?;A. ?72/ @2499415 90 ?12C/<# 15< :.7'/ 616/2'' 18872< ?;<4 ?1 /2 872 ./ =7''46 15< ./ .4' 72415# .129/'# ./ 87;2 . /129# 15< 842' ;C/ 78 15A./'F /2# :1'' ';??75/< @0 :24 78 $1?/'' ./ /A75< 7 1C/ .4'' '/1 45 ./ 7;'/ 78 //2'# 45 ./ 842' 0/12 78 .1 ?7512A.&'' 2/4=5 ./ A7;2'/ 1<76 /< @0 .1 ?7512A.# .7:/>/2# '6//<490 691A/< ./ /129 45 7667'4F 475 '7 1A 4>/ .1 ./ :1''1?75= ./ 842' 7 62/612/ ./ :10 872 ./ A7?45= 78 ./ 245A/ 78 215=/) 7 '/A;2/ ./ A7;5 0 78 ;5 45=<75 45 .4'' 45 /2/') 15< 7 2/5</2 .4'' 1AA/''475 /1'0# @0 >7895= ./ .275/ >1A15 ./ /129 :1'' :4 . <5= 4 41?1 ./ @1 9/ 78 ./ 705/# 15<

2/62/''/5 /<‘ .4?‘45‘@2499415 ‘ /?@1''4/'‘ 1 ‘ ! /54A/#15<‘1 ‘ 124'#1'‘ 94/‘ ';@'/J;/5 90‘ 2/62/''/5 /<‘ W;//5‘ 55/‘1 ‘ !4/551#15<‘ 1=145‘1 ‘ ! /54A/‘ ;245=‘ ./‘91 /2‘ 0/12'‘ 78‘ ./‘ J;//5&'‘2/4=5‘./‘.>/<‘45‘2/ ?/?/5 #499B69/1'/<‘ G:4.‘ ./‘ 6794A0‘ :.4A.‘166/12/<‘ ?7'‘1AA/6 1@9/‘1 ‘ A7;2 ‘ 5‘ , # ./‘ :1'‘ 214'/<# @0‘ /72=/‘ ‘ 7‘ ./‘<4=54 0‘78‘1‘ ;C/‘ 4'‘ 972<'.46‘2/6142/<#19?7'‘ 2/@;49 # 1?@79 75‘ 1'9/#15<‘';6672 /<‘199‘.4'‘/?@1'F '4/'‘ :4.‘ .@/2194 0‘15<‘45</6/5</5A/‘ ‘ ! /54A/# G:/ 12/‘ 79<‘45‘ 2‘ /74&=/‘ 75 1=;&'‘@77C# H‘./‘ 1''/2 /<‘ ./‘ 5=.'.‘.757;2‘@0‘</?15<45=‘15<‘R<=7;2B‘ 7;'90‘45'4' 45=‘75‘ '1 4'81A 475‘872‘ ./‘45<4=54 0‘788/2/<‘ 7‘.4'‘A.121A /2‘?‘ ./‘6/2'75'‘78‘.4'‘<7?/' 4A' I‘ ‘4'‘ ;55/A/''120‘7‘'6/1C‘8;2 ./2‘./2/‘78‘75/‘:.7'/‘1@4. 4/'‘ 12/‘8;990‘499;' 21 /<‘45‘ ./‘87997:45=‘61=/'‘ /‘G:499 7590‘1<<‘ .1‘.4'‘ :7‘'75'‘';AA//</<‘45‘ ;25‘7‘ ./‘ <;A19‘ 4 9/‘ ./‘ :48/‘78‘ ./‘91 /2‘78‘ ./'/‘ :1'‘ ./‘ <1;=. /2‘78‘ .1‘ ;A./''‘78‘ 75 1=;‘:.7‘:1'‘<1;=. /2‘ 78‘ 121.‘ ;A./''‘78‘ 129@727;=.‘ .4'‘91'‘<;A./''‘ 75A/‘2/?12C/<‘(H‘ ;A./''‘78‘C9+15A./' /2# 07;‘12/‘1‘ =77<‘A2/1 ;2/‘15<‘ ‘97>/‘07;#@;‘! ‘ ‘ ‘" ‘ÑI‘ H‘ 0/‘ÑI‘ :1'‘ ./‘'6424 /<‘2/690‘ :.4A.‘J;4/ /<‘ 121.# H‘15<‘ ‘.1'‘1‘?7./2‘ÑI‘ ‘:1'‘7‘.4'‘ ;A./''‘78‘ 15A./' /2‘.1‘ 4A.12<‘ ;?9/0# 129‘78‘A12@727;=.# 45‘.4'‘</>7 /<‘=19915 20# /5 2;' /<‘1‘' 1 /B'/A2/ # :.4A.‘ @/94/>45=‘./2‘7‘.1>/'<4>;9=/<# ./‘:1'‘'7‘'.7AC/<‘.1‘ ./‘A7?? 4 /<‘';4A4</

./‘6;2672‘78‘ 72<‘ 15A./' /2&'‘?4''475‘7‘! /54A/# 45‘ 3 ,‘15<‘ ./‘87997:45=‘0/12#:1'‘ :7879<‘ ./‘ 4=5720‘./2/#15<‘@0‘4 '‘A16 145'#/9'/:./2/#.1<‘@//5‘ 45894A 45=‘1‘A75'4</21@9/‘1?7;5‘78‘:275=‘;675‘ 5=94'.‘ ';@D/A '‘ ./‘91 /2‘A75'4' /<#872‘./‘?7'‘612 # 78‘'149F 72'‘:.7‘.1<‘@//5‘45<;A/<‘ 7‘61''‘827?‘ 5=.'.‘?/2A.15‘ '.46'‘45 7‘./‘ ! /5/ 415‘51>0# 75‘'/2>4A/# ./‘<;21 475‘78‘ :.4A.‘:1'‘94?4 /<#@;‘ ./‘ /O6421 475‘78‘:.4A.‘:1'‘6/2F ?15/5 90‘</8/22/<#'7‘975=‘1'‘ ./‘ ?/5‘ :/2/‘ 62784 1@9/‘ 7‘./42‘/?6970/2'‘ AA1'4751990# 7;2‘'14972'‘</?15</<

‘ ‘

5 ./42‘2/9/1'/# 72‘<4'A.12=/<‘ ./?'/9>/'#@;‘45‘ ./‘872?/2‘ A1'/# ./‘?/5‘:/2/‘'49/5A/<‘@0‘@/45=‘A75</?5/<‘7‘ ./‘ =199/0'# 15<‘45‘ ./‘91 /2# .12'./2‘ 2/1 ?/5‘'499‘87997:/<‘ ./42‘2/A16 ;2/‘ ‘A20‘A1?/‘827?‘ ./‘';88/2/2'‘45‘ ./‘ 1=775'‘ 7‘ ./‘ ' 1 /'?15‘1‘ .4 /.199# 15<‘ ./‘ /129‘ :1'‘</'61A./<‘7‘7@ 145‘2/<2/''‘872‘ ./?# 45‘ ./‘'.16/‘ 78‘ '1 4'81A 475‘ 15<‘ 94@/2 0‘ ‘ 9/''/2‘ 6;2672‘ 78‘ ./‘ ?4''475‘ :1'‘ 7‘ 6/2';1</‘ ./‘ ! /5/ 415‘ 1; .724 4/'‘ 7‘ ?1 /241990‘2/<;A/‘ ./‘ <; 0‘ 75‘ '19‘ 84'.‘/0672 /<‘827?‘ 5=915<

./‘5/:'616/2'‘1‘ ./‘A97'/‘78‘ 3 3‘ =1>/‘57 /‘78‘ 62/6121 475# 15<‘'67C/‘1<?4245=90‘78‘ ./‘H‘' 1 /‘I‘:.4A.‘ :1'‘ 7‘ =4>/‘ <4=54 0‘ 7‘ 49941?&'‘ 2/62/''/5 1 4>/‘45‘ !/54A/‘ ‘9/ /2‘827?U‘ ./‘ 129‘78‘ 15A./'/2‘ 7‘ ./‘ ;C/‘78‘ .2/:'@;2O# <1 /<‘1'‘@/97:# 1557;5A/'‘ ./‘ 1224>19‘78‘ ./‘1?@1''1<72‘45‘!/54A/# ./‘>4/:‘ :.4A.‘ ./‘ 77C‘78‘ .45='‘ =/5/21990# 15<‘.4'‘ 7645475‘75‘1‘ '?199‘?1 /2‘78‘45 24=;/‘7‘:.4A.‘/>/5‘!/5/ 415‘57@9/'‘ A7;9<‘'776# 45‘ ./‘:10‘78‘@;'45/''

‘ ‘ ‘ ‘ ‘ ‘

‘ ‘‘A*0‘"

‘ ‘ ‘ .1>/‘57 484/<‘?0‘1224>19‘7‘ ./‘2/F 6;@94A# :.4A.‘ ./0‘2/ ;25/<‘:4 .‘1‘A7?694?/5# 15<‘ '.199‘57:‘'/ 9/‘ ./‘?155/2‘78‘?0‘2/A/6 475# </'4=545=‘ 1'‘'775'1'‘ ‘A15‘7‘.1>/‘?0‘842'‘1;<4/5A/‘ ‘A1557‘@;‘ .45C‘ ./0‘12/‘</'427;''‘78‘'.7:45=‘'7?/‘62778‘78‘ ./‘ =2/1‘.757;2‘ ./0‘.1>/‘872‘ ./‘ "45=# 1‘9/1'‘4‘4'‘ '14<‘ '7)‘ :4'.‘ ‘?10‘845<‘ ./?‘2/1<0‘45‘1=2//45=‘7‘';A.‘ .45='‘ ‘'.199‘</'42/‘45‘2/91 475‘7‘7;2‘ 21</# :.4A.‘7;2‘ ?/2A.15 '‘12/‘78‘7645475‘:4 ‘@/‘19'7‘872‘ ./42‘=77<‘1'‘ :/99‘1'‘7;2‘7:5‘ ./‘ /51 /‘ .1>/‘91 /90‘?1</‘1‘ '/>/2/‘</A2//‘;5</2‘6145‘78‘845/‘15<‘ @154'.?/5‘45‘ A1'/‘150‘78‘ ./‘57@9/'‘ '.199‘ '794A4‘75/‘157 ./2‘872‘ >7 /'‘45‘ ./‘A.74A/‘78‘150‘ /?6970?/5‘:.1 '7/>/2# 4‘ @/45=‘A7?/‘7‘ .1‘</=2//‘ .1‘'/>/219‘78‘57‘ '72‘78‘ ?/24‘:1'‘62/8/22/<‘@0‘ .1‘?/15'# :.4A.‘45‘ 4?/

?4=. '627>/'81 19' 7' ./42'=7>/25?/5 ' '?;' '@/='07;2' 21A/' :499' 612<75' .4'#'45A/' '1?''/5'4@9/'.7:'94 9/' '.1>/'827?' ./5A/' 7' '/5<' :72 .' 1C45='57 4A/'78# 15<' @/./>/' .1 ' '1?# :4 .'199' 2/'6/A # bA # H' I

./' 2/A/6 475' 78' 15' 72<;4120' 1?@1''1<72' :7;9<' .1>/'@//5'1'?1 /2'78' <4884A;9 0'872'575/'78' ./'?1' /2'' 78' ./' A/2/?754/'' 1 ' 45'' >/20' 6;5A 4.7;'' A7;2 ' ' :1'' 7 ./2:4'/' :4 .' 15' /O 21B72<4;140' /5>70' ./' 7884A419'' '//?/<' 6;KK9/<'45' </A4<45=' :./ ./2' ./'91 /2' :1'' 7' @/' ?1</' ?72/'72' 9/'' 78' .15' 1' 2/'4</5 ' 1?F @1''1<72 ' AA72<45=90' ./' /129' :24 /'(*

' ' ' ' ' ' ' ' A*0' %

' ' # A1557 ' 0/ ' 1AJ;145 ' 07;2' 21A/' .1 ' '.1>/'?1</'?;A.'627=2/''' :4 .' ./' 799/=/' 1@7;' ./' ?155/2' 78' ?0'2/A/6 475# .7;=.'4 ' :4 ' 57 ' @/'975=' 57:' '845<' ./0'62767'/' 7' <7'199' ./' .757;2' .1 '4'' 67''4@9/'72' />/2' .1 .' @//5'<75/' 7'150'C45=) @;' ./' :10' ./0' 215'1A ' ./2/'4'' '97:# 4 ' @/45=' 842'' 7' @/' ?7>/<' 7' ./' 7=/'15<' 799/=/#15<'18 /2:12<'# @/872/' ./0'A15' =4>/'150'15':/2# 4 ' ?;' ' @/'</@1 /<' 54' ./' 2/=1<4# .7:' 24>419' '7/>/2' ./'?1 /2'4'' ';5</2' 15<' ;5</2.15<' .1 # .7;=.' ./0'45 /5<' 7' 784/2' 7' 2/1 ' ?/' .2//'<10'' :./2/' '</ '42/# 0/' ./0' :7;9<' @/'(=91<' ' :7;9<' 2/8;'/'4 #1'' 72<' 1;9A75@24<=/'<4<' :./5'./' :1'' ./2/(./' 2/1'75'4'' 612 90' ./' /O6/5'/# 15<' 19'7' 57 ' C57:45=' :/99' ./'?/.7<# 4 '.1>45='@//5''7'975='45A/' 150' ?@1''1<72'/O 2172<45120' :1''./2/''//5 * 872'575/' @/' '/5 '827?'7 ./2'612 ''@;' 5=915<'@;' 7'2/'4</# 15<' 45' .1 ' A1'/' ./0'.1>/'57 ' .1 ' A.121A /2 ' .45C' 7' 87997 !' ./' 62/A/</5 '78' 72<' 1;9A75@24<=/# 15<' '1>/' ?0'24=.# '7' .1 ' 4 ' :4 ' 57 ' @/' 150'62/D;<4A/' 7' ./' A.121A /2' ./' <5=' .1 .' .757;2/<' ?/' :4 .# 15<' ?1C/' 4 ' 1'' 15' 7@94=1 475' <7' 7' ./?# :944A.' :499' @/' 19'7' ?;A.'/1'4/2' 7' ?/# :.4A.' '.7;9<' 05=450?;1,-' 48' 4

872?/290' 1' 75' 15 45769/' :4 .' .4"' 81 ./2' .1 ' :1"' 1?@1''1<72# 15<' 18 /2:12<"' ./' .1<' ./''1?/' A.121A /2' /'94>/"' ./2/' >/20' 624>1 /# 15<' 4'a /' //?/<' 1' ?15' 78' =77<' 612 '# .7;=.' .1>45=' ?1224/<' 1' !/5/ 415' 78' ?/15' A75<4 475# 15<' 872?/290' .4"' ?4' 2/''# .1 .' ?;A.'9/''/5/<' 4 ' '@/94/>/' .4"' 1997:15A/' 827?' 215A/' ?;' '@/' >/20' '?199# /9'/' ./' :7;9<' 57 ' @/' ';88/2/<' 7' ?1C/' '7' 94 9/' 1' 84=422/' 1"' ./' <7 .' ' .1>/' D;' '57:'2/A/4>/<' 1' A7?6.B' ?/5' 827?' ./' 6154'.' :4 .' 1'</'82/' 7' :14' 75' ?/' ' @/./>/' ./' :1"' :49945=' 7' '//' ./' ' /6"' ./' 2/5A.' £?1</)./'.1>45=' @//5'./2/' ./'/' .42 //5'0/12'' '.1>/' ?/' :4 .' '7?/'<4'166745 ?/5 "' 45' 2/91 475' 7' ?0' =75F <791'# :.4A.' ' ?1C/' 5/:(@0' ./' 72</2'"' ' .1<' =4>/5' ' <4<' 4?1=45/' ./0' :7;9<' .1>R"' @//5' <75/' @/872/' ' A1?/'.4 ./2# @;' ' .1>/' 87;5<' ./' A75 2120' ' '.199' ?1C/' ?0' /5 20' 1"' '775' 1"' ' A15' 67''4@9/' ' ;5</2F ' 15<' 827?' 2' 12<' 07;2' 21A/' .1 .' 2/A/4>/<' ?45/' 827?' 1?@;2=.# 15<' .1' 07;'12/'57:'45' ./' A7;5 20# :./2/' ' .76/'07;' :499' 845<' .1' /88/A' :.4A.'4"' </'42/<' @0' 199' .1' .1 .' ./'.757;2' 7'C57:'07;# 15<'/'6/A41990' @0'.4?' :.7'4'# bA' H' I

5</2' ./'62/ /O'78'2/5</245='199' 67''4@9/'.757;2' 7' ./'2/62/''/5 1 4>/' 78' "45=' 49941?# ./'>/20'124' 7A21 4A' !/5/ 415' =7>/25?/5' <4<' 57' <4'<145' 7' ?1C/' 1'94 9/' 62784' 7;'78'944?# 48' 67''4@9/' ./J;/' 475' 78'.4"' /5 20' :1"' 1'54A/' 75/# 15<' ./'1;.724 4/"' .76/<' 7' ?1C/' ./' ./27' 78' .1' 6;@94A# 15<' ./5' 45<4'6/5'1@9/# '6/A 1A9/' A75 24@;/' 57' ?/2/90' 7' ./'<4=54 0' 78'944"' 7:5' A7;5 20' @;' 7' ./'A788/2"' 78' ./42''' 5' ./''/'<10"' 1?@1''1<72"' 627A//<' 7' 15<' 827?' ./42' 67' "'.C/'?/5' 78' @;'45/''' # @;' 78' 79<' 15' /5>70' A7;9<' 57' '/ 9/' 1' J;/' 475' 78' 458245=/F ?/5' 15<' 78' 1'<;0' 75' '19 B84'.' :4 .7;'?1C45=' .4"' 842'' /6"' 45' '79/?5'' 1/' .4'# 45</<# :1"' 1"' ?;A.' ./' A1'/' 1' .7?/' 1"' 75' ./'A75 45/5' ./2/' :1"' 1' 2/94'.' />/20:./2/' 872' 6;@94A' '6/A 1A9/'# 9/' ./' 6;267'/' @/' :.1' 4' ?4=.) 15<' 1' .1' >/20' 4?/' 1' "54=.' 78' ./

' '

12 /2' A7;9<' 57 ' @/' ?1</' 45' 5=915<# A2/<4 1@90# :4 94B'
7; ' 1' 627A/''475' 78' @/' A./>194/2' /9/A ' 15<' 199' .4''
';6672 /2'# 827?' 75<75' 7' 45<'72# :.4A.' '/ ' 199' ./'
@1991<?75=/2'' 45' 627'6/24 0' 872' 1' 5975 .# 15<' =1>/'
';@D/A ' 78' 19C' 7' 199' :.7' @/./9<' ./' '4=. ' 872' 1'
948/ 4?/

' ' ' ' ' '

' 'N A*O

' ' ' <4<' 45 /5<' 7' .1>/' =4>/5' 07;2' 21A/'
15' 1AA7;5 ' .1 E5/O ' ;/'<10' :1'' ./'<10' 1=2//<@/F
://5' ?/' 15<' ./' 799/=/' 8 ?1C/'?0'/5 20) @; ' D;' '
57:' ' 2/A/4>/<' 1' A7?694?/5 ' 827?' 2' !/54/2# :.7' 4''
166745 /<' 7' 2/A/4>/' ?/# .1 ' 4 ' :7;9<' @/' 1' =2/1 ' 81>7;2'
48' ' :7;9<' </8/2' 4 ' 872' '7?/'<10'' 975=/2 ' 'A7;9<' ?1C/'
57' 7 ./2' 15':/2' 7' .4?' @; ' .1 # .1>45=' 84O/<' ./'<10'
:4 .' ./' 799/=/# ' A7;9<' 57 ' 19 /2' 4 ' ;59/'' ' ./0' <4<' 9/ '
?/';5</2' 15<' 827?' ./?' 4 ' :1'' ./42' </'42/ ' /' 4''
75/' 78' ./?# 15<' ' ';667'/' ' '.199' @/' 7@94=/<' 7' 6;' 4 '
788' ' 4'' 57 ' 7' @/' 4?1=45/<# ./' 94 9/' 6794A4/'' ./0'
.1>/'./2/' 872' ./' @/5/84DD+78' ./42' 7:5# ' .1>45=' @//5'
</910/<' 45' 1 ' ?0' 62/6121 475'' 1'' ?;A.' 1'' 4'' 67''4@9/'
:4 .' '/>/219' ?/''1=/'';5</2.15<# .7:'4 ' :7;9<' @/' ?72/'
872' ?0' .757;2' 48' ' :7;9<' </8/2' 4 ' 499' /5 # 7590' 45'
.76/''78' C//645=' 199' ./' ' 215=/2'' ./2/' '7?/' 4?/'
975=/2 ' ./0' .1>/' @//5E;5</2' '7?/'8/12' 9/' ' ' '.7;9<'
57 ' 2/8;'/' ./42' 788/2' 78' @/45=' 97<=/<' 15<' 2/1 /<' 1'L'
872?/290' ;';19# 15<' :7;9<' .1>/' .1<' ?/' </A912/' ?0+E
45 /5 475' @/872/' 1'' 72<' 1;9A75@24<=/' <4<# @; ' '
.7;=.'4 ' 4?/'/57;=.' 7'9/ ' ./?' C57:' ?0'?45<' 18 /2'
./0' 941<' ?1</' ./' 788/2' AA72<45=90' ./0' 627A//</<'
7590' 75' ./' 1AA7;5 ' .1 ' ' :1'' 57 ' :49945=' 7' 6; ' ./?'
7' '7' ?;A.' /06/5'/# ./' 2/6;@@A' .1>45=' @//5' 975='
/5=1=/<' 45' 1' :12# :.4A.' 57 ' 1' 94 9/' 7@94=/<' ./?' ./'
6154'.' 1?@1''1<72# :.7' 4'' ./' ;C/' </' 79/'# 1'
/16794 15# .1 .' @//5' 7' ?1C/'?/' 1' >4'4 ' :.4A82' ' .1>/'
19'7' 2/ ;25/<' /' 4'' 57 ' 45' ./' 9/1'' 78' ./' .;?7;2' 78

A/6 475 2 15015 : 499 '/5< 15 1AA7;5 78 '94199
57 : ''775 910 @/872/ ./?' .7'/ ?1 /2''2/91 45= 7 7;2
21</) 15< 19'7# : .1 ' .1>/ 8;2 ./2 45 ?0 45' 2;A 475'#
: .4A.' '.199 27;@9/ 07;2 21A/ : 4 .' 1'' 627A//< I

27?4'/'' 872?/< 199# '1>/ 1A '' 78 6794 /5/''# .1 '
A7;9< @/ /O1A /< 827?' ./&'97 : B=745= 7=/ 15< ./
799/=/# : .4A.' @7<O : 7;9< 21 ./2 ';88/2 <4'1<>15 1=/
7 ./ /6;@.A .15 15 45821A 475 78 27;45/ ¢ ./
5/O '9/ /2 1557;5A/'' ./A97'/ 78 1 ?4''475 : .4A.' A7' '
'7 ?;A.' 15< /88/A /< '7 94 9/# '1>/ ';' 14545= ./
<4=54 0 78 5=91 4< 45 ./6/2'75 78 ./2 1?@1''1<72

2

J-- * -4);#

* .1< ./ .757;2 78 07;2 21A/&'' ./B
.' /@ # : ./2/ ;5</2' 15< .4'' 1D/' O .1'' 57
.7;=. '' 78 '/5<45= 7 ./ ;C/ 78 1>70) .1>/ 57 : '
1C/5 ?0 9/1>/# 15< 57 .45= .45</2'' ?/827?'@/=45545=
?0 D7;25/0 @; ' ./ .4<4'67'4 475 78 ?0 @27 ./2# .7& '
.76/ 4 ' : 499 57 '@/ 975= ' '/5< 07;2 21A/ 1 A760 78
?0 '6//A.# 15< 19'7 ./42 15' : /2# >.4A.' 4'' 8;99 78
/O62/''475'' 872 .4'' 1D/' 0# 15< '@/94/>/ ./0 12/ 2/19)
@; ' 150 .45= .1 ' 4'' </'42/<# .7;=.' 872 ./42 7 : 5 1<F
>15 1=/# .1 ' 4'' 57 ' 1=2//1@9/ 7 ./42 79< A;' 7?'#
19 : 10'' ?/ : 4 .B =2/1 ' 7667'4 475# : .4A.' 1 ' ?0
2/ ;25 'A15 @/ /2 45872?' 07;2 21A/ ' @/94/>/ .4''
/?@1''O : 4 ' .1>/ .1 ' =77< /88/A 1'' 7 ?1C/ ./?'
;'/ ./C45=&'' ';@D/A '' @/ /2 .15 ./0 .1>/ <75/# 15<
1'' 8;2 ./2 16694A1 475'' 12/ ?1</# .7'/ ?1 /2'' 2/F
91 45= 7 7;2 21</ ?10 67''4@90 @/ 7@ 145/<) ./ : 10
@/45= ./2/ 7 1A '7 A1;47;'90 1'' 5/>/2 7 A7?/ '775
7 150 2/'79;475) : .4A.' ?10 627>/ '7?/4?/'' >/20
62/D;<4A419 7 ./42 ' 1 / ' 1?' =91< 07;2 21A/&''
./19 .' : 499 6/2?4 ' 07;' 7 A7?/ 7 7 : 5 ' 1?# : 4 .#
199 2/'6/A # E H I

72< 15A./' /2&'' @27 ./2# /5/1=/# : .7 : 1'

G z

?1' /2 78 ./D/ :/9 7884A/# 15< 15 1 1A.Y 7 ./ ?4''475 7 !/54A/# <4/< 45 .1 A4 0 775 18 /2 .1 />/5 7AA;22/<# ./ /129 <42/A /< .4'' '9+6'' .7?/ :12<# 15< ./ 5/O : 7 9/ /2'' 12/ =216.4A 57 /'# ?1</ @0 ./ :10

L * ./ A75A/25 :1'' ;5</2 @0 ./ </1 .78 ?0 @27 ./2 :1'' ./ 2/1'75 <4< 57 1AJ;145 07;2 21A/ ?0'/98 78 ?0 9/1>45= !/54A/ 1?57 :A7?/ '7 812 75 ?0 :10 1'' 075'# .1>45= ?1</ 57 '10 /4 ./2 1 4915 72 ;245# 15< .1>/ .1< @; 15 499 D7;25/0 @0 ./ =2/1 '57 :'' .1 :1'' 75 ./ 96'') 7B?7227 : 9/1>/ .4'' 691A/ 872 124'# 15< ./5 '775 '.199 .45C 78 A7?45= 7 5=915<# :./5 '.199 19 :10'' 1AC57 :9/<=/ 07;2 21A/&'' C45<5/''/'' 15< 81>7;2'' 7 ?/

H 845< 45 199 ./'/ 612 '' 1 <4'A7;2'/ 78 1 5/ : :12# ./ '' 45= 78 6145 57 @/45= 94C/90 7 94>/ 975=) ./ ;C/ 78 1>70 4'' /5A7;21=45= .4'' 872A/'# @0 1<<45= /5 ?/5 7 />/20 A7?6150# 15< 1 A7?6150 19'7 7 />/!0 2/=4?/5 # '7 .1 ./5 ./ :499 .1>/ 1@7; # %%% ?/5 />/219 2/=4?/5 '' 61''. /2/# 15< 4 4'' '14< ./0 12/ 7 /5A1?6 '775 75 ./ 24>/2 @/ :/ /5 .1?@Y20 15< !19/5A/) ./ 245A/ 78 !1;</?75 :1'' =75/ 872 >4=575 @/872/ A1?/ 827?/5A/) ./ 45 /5<'' 872 751A7 @0 915< ./91' 9/ /2 '10'' 07;2 21A/ :1'' 1 / :?12C/ :4 .4'' 1D/'0) :4'./ ./ 142 ?10 A75 24@; / 7 07;2 ./19 . 1?# ?0 72<# 07;2'

H I

! * *7 ' %

H 7 # 1?1 91'' A7?/ 7 124'' :./2/ 45 /5< 7 '10 7590 '7 975= 1'' .1 ?10 .1>/ 1 01A. 2/1<0 1 1914'# :.4A. </'42/ 94/ 81>7;2 07;' :499 1AJ;145 .4'' 1D/'0# 15< .1 &+7;:4 @/ 69/1'/< 7 =/ 4 72</2/< '.7;9< @/ =91< 48 4 4'' A75>/54/5 7

.1>/ ./ 120 : .4A. A1224/<? /45 7 79915< .1>/ 1AJ;145 /<.4" 21A/ 19'7# @; 9/1' . /' '.7;9<57 '@/'45 7:5 '1;4872A/<7=4>/'07;' .4" 27;@9/ 4;aD7;25/0 7 .4"691A/':1">/20';569/1'15 #.1>45=.1<499 :B/1 ./2# 15<75 . / 96" ?;A.'57: ' '<757 '62/ /5<7 '/5< 07;'150 .45=827?. /5A/# 7590& . /5;?@/2 78 5=.'.' :.4A.'12/'./2/#15< ./42 :10 78 94>45=# :499 A75>45A/' ./ 2/5=.' ./2/'4"57 :15 ' 78 ?75/0 45 5=915<# 72 .1 ' :/ :/2/ 57 ' 1@9/ 7 .1>/ A1224/<75 ./ :12 />/2 6/769/':1" '7 ?4'/21@90 6772 1" '941>/'87;5<199 .27;=.' 215A/# 15<'7 ;52/1'751@9/ 45 ./42 </?15<" :./2/>/2 ./E# ?//' :<.' '215=/2&' ./42 >45/012<" 18/199 </'270/<@0 ./ 827' # 15< ./42 A725 57 # @; ' 45<488/2/5 ' 1?'07;2'#

H I

7 ./'/'</ 149" ?10 @/'1<</<15 /64'7</':4 .' :.4A.' 72< 15A./' /2 .1< 7 </19# :./5' 1 ' !/54A/# .7;=.' :./ ./2 ';AA/''8;990 72 57 # <7/" 57 ' 166/12 84E7?' ./'/' 616/2'' ./'</8;5A ' ./27 78 ./' /64'7</' 42 E 49941?' 7<796.45# :1" 5=94'.' ?@1''1<72 45 6145# :./5' 4;" 1 /":1" ?1C45=.4" 2/>/91 475'# 1?75=' :.4A.' :1" 75/' 7 ./' /88/A ' .1 ' ./' 76/' .1<62757;5A/< 5=915< 7 @/' .4" 7:5 ./24 1=/# 15< .1 ' 1?75=' ./' 1<?454' 21 72" 51?/<@0 ./' 675 488 872 ./' =7>/25F ?/5 ' 78 944" 61619 155/O# ./' .1< 166745 /< 42 49941?' 7<796.45 7 ./' 57 E75/27;" 7884A/' 78 72< 24>0 /19 .1 />/2 819'/.77< ./2/' ?10 .1>/' @//5 45 .4"1''/2 475# 4 '4" A/2 145 .1 ' 42 49.1?# :.7 .1< 6276/2 0 @271<BA1' ' 7>/2 ;276/# 2/?145/<45 6145# 15< ./2/' ;9 4?1 /90 <4/<' ./' :1" 1662/A41 /< ./2/'@0 ./' K/197;" ?/?@/2" 78 .1 ' .;2A.' 7 :.4A.' ./' .1< @/A7?/' 1 A75>/2 '4" A;247;'90 499;' 21 /<45 ./' 616/2 78 45' 2;A475" 62/''/5 /< 7 72< 15A./' /2 ' ./2/' 12/' 57 ';/.' /06/2 ' :499B?1C/2"B1" .7'/' 78 ./' A91'" ./2/' 2/62/''/5 /<# 15< :<47 45 .4" 45' 15A/' :/2/' A799/A /<27;5<1'<045=' ?15 :.7 </A912/" .1 ' .4" ?5>)

5

7 /9# ' 499 7>/2977C' 7>/5 12</5 "45= 49941?
214'/< ./A.49<9/''15<=2;?@.5=79<'14972 7 ./ 4 9/
78 129 78 2872<# 15<.1>45=/?4A./<.4?@0 /224 720
1' :/99 1' /557@9/<.4?@0 /224 72419 4 9/# :/5 7
<45/:4 . .4? :.7? ./975=7>/2 ./ :1 /2 .1<# 1
75/ 4?/# 5/1290 '/<;A/<45 7 .4'' '/2>4A/ /C/# 72<
A12'<19/# :1' ./ .42<15<91' 972<@; 75/78 .1
81?490# :.7'/$1A7@4 / /5</5A4/'12/ />4</5A/<@0 .4''
'.05/''78A7;2

'$ % & '' C-;) !'

(. /C45=A1?/ .4 ./2 75 75<10 91' #
15<.1'' '45A/61''/<.4'' 4?/45 .;5 45=15< ./7 ./2
<4>/2'475'' 78 ./691A/ /' /2<10 ./C45=& 691 /# 78
>19;/# :1'' 2;5 872# 15< 42 $7.5 12'75'' L ./
@2/:/2M =7 4) 18 /2 :.4A. 1 21A/:1'' 2;5@/ ://5
./ :7 .72'/'' A199/< 1;@70 15< W;1? 1?# ./842'
@/975=45=7 2 12>/0 15< ./7 ./2 7 2 7:# 15<
./ 91' :75 7B?7227: ./C45=<45/'' 1 ?0 72<
2872<&'# 1 .466/5.1?# 1@7; .2// ?49/''788 <7
57 0/ ./12 .7:975=7;2 ' 10 4'' 94C/ 7 @/ 45 .4''
691A/# :./2/ ?0 972< ;C/ 78 .2/:'@;20 1224>/<
0/' /2<10 827? 7@;25# .4'' '64 45=78 @977< A75F
45;45=>/20 ?;A.

H /.1>/ 1 =77<</19 78 A7?6150 ./2/ :/9F
A7?/<./7 ./2<10 1@7>/ :/5 0 57@9/?/5# ?0 72<
A12'<19/ 75/ 78 ./?# :.7 166/12'' 45 .`` 7B:5# 15<
.1<0/' /2<10 1 .72'/ 2;5 872 ./691 /# @; <7/'' 57
A7?/ 7 7;2 7;2 72<'.46 :499 .1>/15 1AA7?4
45 ./5/:'' 2 15015 2/A/4>/''827? 7;2 7884A/# .1
4 :1'' /5</1>7;2/<0/' /2<10 45 ./ 7;'/78 7??75''
7 .1>/ .1< 2 "54=. 15< 2 ;2 75 1<?4 /< 7
@149# :.4A. :1'' ?7>/<@0 2 12>/0 15< '/A75</<
@0 42 <:12< /0?7;2 * @; ./0 A7;9< 57 /88/A
./42 14?'# :.4A. :1'' 7 .1>/=7 ./''/ :7 @149/<
842' .1 ./0 ?4=. 18 /2:12<'' .1>/ <75/ ./ '1?/

"#

872 2 ;5A7?@/ 1?# :4 . =2/1 2/'6/A # 07;2
* * G 72<'.46& ?7' 814 .8;9 15< .;?@9/ '/2>15 #
) #

/ A7?/ 45 ./ 5/O A.16 /2 7 ./ 62/6121 475'
872 15< ./ /5 /245= ;675 72< 15A./' /2& =2/1 /2
?4''475 * .1 # 51?/9O# 7 215A/

9

5' 2;A 475'872 7;224=. 2;' 0 15<
:/99B@/97>/<A7;'45 15<A7;5'/9972#
.129/' 129 78 15A./'/2# :.7?
:/.1>/'166745/<7;2 ?@1''1<72B
H O 2172<45120 7 7;2 =77<@27 ./2
./ ?7' .24' 415 "45=# 4>/5'1
7;2 7;2'1 "/5'45= 75# .'<10
78 10 3 #45 ./ 0/12 78 7;2
2/4=5

H 1>45='2/A/4>/< ./'/'45' 2;A 475' :4 .'07;29/ /2'
78A2/</5A/#07;''.199#:4 .'199A75>/54/5'6//<#2/6142
7 124' 72 ';A.'7 ./2 691A/':./2/ ./ ?7' .24' 415
"45='.199C//6.4'A7E 2#15<1''775'1'07;'12/'2/1<0
872'4#07;'.1991'C'15'1;<4/5A/'45'7;2'51?/)1':.4A.#
+.1>45='</94>/2/<07;2'A2/</5 419'#07;'.199</A912/'7
.4?' ./'=2/1''1 4'81A 475' :/'.1>/'45' '//45=' ./' :12#
:.4A.'.1' 18894A/< ;276/'872'7'?150'D+/12'#@27;=94'
7'15'/5<#15<7;2'/125/''</'42/'.1' ./'6/1A/'?10'
@/'<;21@9/'15<'91'45='7;'.199'?72/'612 4A;91290'
1AJ;145'.4?':4.' ./'>19;/'15<'/'//?':/'.1>/'872'
.4' 6/2'75' 15<824/5<'.46#15<.7:'2/1<0':/'.199'
19:10'@/'7'62/'/2>/'15<A;9 4>1/'./'=77<A722/F
'675</5A/''7'.166490'2/5/:/<@/ ://5';' 15<7;2'
<7?45475'

H 7;''.199'94C/:4'/'</'42/'1;<4/5A/'78'./' 1;69445#
15<</94>/2'.4?'7;2'9/ /2# 1AA7?615045='./''1?/'
:4.'1''4 1@9/'A7?694?/5#:.4A.'! '.199'94C/:4'/#
?1C/'45'7;2'51?/'7'./'2/''78'./'6245A/''78'./'
@977<#1AA72<45='7'94/''09/'15<621A 4A/'78'.1' 7;2#
1C45='A12/'1'07;2'1;<4/5A/''15<75'199'7./2'7AA1'475''
7'?145 145'7;2'<4=54 0#15<.1' 07;'@/'2/1/<:4.'
199'./'.757;2'15<2/'6/A'.1' 12/'=4>/5'7'./' O 21F
72<45120B ?@1''1<72''78 61?'15<7./2'A27 >5/<
./1<'

H 7;''.199'A12/8;990'7@'/2>/' ./'?7 475''15<45 /5F
475''78 .1' 7;2':4.'2/'6/A' 7'150'</'4=5'./0'?10

.1>/' 1=145' ' ;"' 72' 7;2' <7?45475'# 1"' :/99' 1"'1=145' ' 150' 7 ./2' 78' ./42' 5/4=.@7;2' ' 7;' '.199' 7@'/2>/' 94/42' 45A9451 475"' 45' 2/91 475' 7' ./' 62/'/5 ' ' 1 /' 78' 188142"' 1@271< * :./ ./2' ./0' 12/' /5 /245=' 45 7' 150' 9/1=;/"' # 72' £/5=1=/?/5 "' 904 .' 7 ./2' 6245A/'# /'6/A41990' ';A.' 1"' ?10' @/' 62/D;<4A419' 7' 94/' 6/1A/' :.4A.' 4"' '7' .166490' /' 1@94'./<' 45' .24' /5<7?

H' 7;' '.199' /5 /2 145' 1' =77<' U 722/'675</5A/' 15<' 45 /2A7;2'/' :4 .' ./' ?@1''1<72"' 15<' $4945 4' /2"' 78' 199' 6246A/"' 15<' ' 1 /"' 45' 1?4 0' :4 .' ;'# 2/'4<45=' 1 ' ./' 2/5A.' 7;2 "' 15<' 612 4A;91290' :4 .' .7'/' 78# ./' 1 /"' /5/219' 78' ./' 54 /<' 27>45A/'' 7;' '.199' 75' 199' 7AA1'475"' 627 /A '15<' A7;5 /515A/' 7;2' ?/2A.15 "' 21<45=' 7' 150' 78' ./' /224 724/"' 78' ./' 224@' ' .24' 415' "45=# 15<' ;'/' 07;2' /5</1>7;2"' 7' 7@ 145' 2/94/8' 872' ./?' ;675' 150' D;' ' A7?69145 "' ./0' '.199' ?1C/' 7' 07;# 15<' 7' 627A;2/' ./' 2/' 4 ; 475' 78' ';A.' 624>49/=/"' 15<' 4?? ;54 4/"' 1"' ./0' 872?/290' /5D70/<

H' ./2/1"' 7;2' 27019' ;5A9/' " 45=' .129/"' ./' /A75<# <4<' @0' 15' 72</2' 45' 7;5A49# @/1245=' <1 /' ./' 3 .' <10' 78' ;=;' ' 33Q# <42/A ' .4"' 1?@1''1<72"' 57 ' 7' =4>/' ./' .15<' 45' ./42' 7:5' .7;'/"' 7' /5>70'# 45' 6;2';15A/' 78' :.1 ' :1"' 621A 4'/<' @0' 1?@1''1<72"' 78' 7 ./2' 6245A/'# 15<' ./' '1?/' .1>45=' @//5' />/2' '45A/' 7@'/2>/<# :/' .45C' 84 ' 7' 2/6/1 ' .4"' <42/A 475' 7' 07;# 57 ' 7' =4>/' ./' .15<' 7' 150' /5>70' 45' 07;2' 7:5' .7;'/

H 8' 199' ?1 /2"' 07;' '.199' @/' 45872?/<' 78# <;245=' 07;2'/?@1''0# :.4A.' ?10' @/' 78' A75'/J;/5A/' 15<' :72 .0' 7;2' C57:9/<=/# 07;' '.199' A75' 15 90' =4>/' 15' 1AA7;5 ' 7' ;"' @0' 75/' 78' 7;2' 6245A461' '/A2/ 124/"' 78' ' 1 /# 827?' :.7?' 07;' :499' 2/A/4>/' ';A.' 8;2 ./2' 45' 2;A 475"' 15<' <42/A 475"' 1"' :/' '.199' .45C' 84 ' 7' '/5<' 07;# :.4A.' 07;' 12/' 7' 7@'/2>/' 1AA72<45=90

H' '07;2'2/ ;25' 827?' 07;2'/?@1''0# :/' '.199' /06/A ' 827?' 07;' 1' 612 4A;912' 1AA7;5 ' 15<' 51221 475' 78' :.1 ' .1 .' .166/5/<' 2/?12C1@90' 45' .1 ' 7;2 ' <;245=' 07;2' A75 45;15A/' ./2/# :4 .' 2/91 475' 7' ./' 1@494 4/"' 15<

"!

%

188/A 475'' 78 . / 2/5A. ? 454' /2'# . /42 45 /2/ ' '# ? ; ;19
A722/ '675</5A/ '' 15< <488/2/5A/ '' 75/ : 4 . 157 . /2 84/42
45A9451 475'' 7 872/4=5 6245A/ '' 15< ' 1 /'# 7=/ . /2 : 4 .
199 ' ; A. 7 . /2 7@' /2>1 475'' 1'' 07; ' . 199 @/ 1@9/ 7 ? 1C/
: . 4A. ? 10 A75 24@; / 7 45872? ; '' 78 . / 62/ ' /5 A75F
<4 475 78 . 1 =7>/25? /5 15< C45=<7?

H I

/872/ : / 627A//< 7 =1 . /2 /O 21A '' 827? . /
1?@1' '1<72&'' 9/ /2'' 7 .4'' 7 : 5 A7;2 # : / : 499 45' /2
A764/ '' 78 1 8/ : 2/A/4>/< @0 . 4? 827? ?454' /2'# ' /A2/F
124/ '# 15< 824/5<'' 1 . 7? /# @; ' 7 : . 4A. . 4'' 2/694/ '' <7
57 166/12 45 . / 94?@79 75 616/2' ' 42' # . /2/ 4''
75/ 827? 72< $/2' /0# : . 4A. ' '. 7 : '' . 7 : . / 94@/2 0 78
7662/ ' '/< 5=. '. ? /5 : 1'' >45<4A1 /< @0 . / 7>/25F
? /5 # 15< . 7 : D/197; '' . 1 7>/25? /5 : +1 78 150
' ; '64A47; '' ? 7>/ ? /5 '' 45 A7 915<

A

, , >E # ! ' '

* * . 1>/ . / 81>7; 2 78 07; 2 72<' . 46& 9/ /2 78 . / ; = # : 4 . / /5A97 ' /< 616/2# A75F
14545= . /1<'' 78 ? 1 /2'' 1@7; : . 4A. 07; . 1< '67C/5
7 72A0 A1557 @; @/94/>/ 72A0 C57 : ''
: . 1 4'' <75/ 7 2579<) @; ' 45A/ . / 62/ /5<'' 7 . 1>/
57 C57 : 9/<=/ 78 4 # . 45C 07; 2 72<' . 46 <7/ '' : /99 7
A75 45; / 07; 2 /5J; 420 A75A/2545= . 4? 45 72</2 7
627A; 2/ . 4? . 4'' . @/2 0

H 2/ ? / ? @/2 <4< '6/1C 1@7; 1<9/2# 15< : 1''
15' : /2/< . / ' . 7; 9< . 1>/ 9/1>/ 7 =7 7; 78 . / C45=<7 ?#
: . 4A. : 75</2 . / <7/ '' 57 1AA/6 78 21 . /2 . 15 94>/
; 5</2 ' ; A. 6/2' /A; 475

H A75A9; </ 2 49941? 9/ ? 45= . 1'' @0 . 4'' 4? /
@//5 : 4 . 07; 2 72<' . 46 7 1AJ; 145 07; 4>4 . . / ' 1 /
78 . / ? 1 /2 A75A/2545= . 4? '/98# . 4'' : 48/ 15< '4' /2

'' 7 . / A7? 69145 . 4'' 1D/ ' 0 . 1'' 72</2/< 07; 7

?1C/' 1@7;' ./' :/9>/' 627 /' 15 '' .1' :/2/' 1C/5' @0'
1' 2/5A.' ' 12?/<# 1' 10755/# 7;' 78' 15' 5=94'.' ;4
'.46' @7;5<' .7?/' 827?' ' /@1' 415# 199' ./' 45872?1 475'
'A15' 8;2 ./2' =4>/' 07;2' 72<'.46' 4'' @0' '/5<45=' 07;' ./'
/5A97'/<' 616/2# :.4A.' :1'' 62/'/5 /<' 7' ./' 72<''
$;'4A/'# :.7' 977C/<';675' 4' 1'' 1' .45=' 78' '7' /O 21F
72<45120' 51 ;4E/# .1' ./0' .7;=.' 84' 7' 910' 4' @/872/'
./' C45=' 872' .4'' 612 4A;912' <42/A 475'

H' '.1>/' 2/A/4>/<' 45872?1 475' .1' ./2/' 12/' 82/J;/5'
?// 45='' 45' A7 915<' 78' 6/2'75'' <4'184/A /<' 7' .4''
1D/'0&'' 7>/25?/5 # 15<' .1' ./0' .1>/' 1A ;1990' :7'
</6;4/'' 1' ' /2?145'# 15<' 941' 75/' :.7' .1<' ./'
'1?/'/?6970?/5' 4'' 91 /90' </1<' 1' 124'' .4'' 1<>4A/'
4'' >/20' =/5/219# 15<' 6/2.16'' 578' ?;A.' 7' @/' </6/5</<'
;675) .7:/>/2# ' .7;=.' 4' 6276/2' 7' =4>/' 07;2' 72<B'
'.46' .4'' 57 4A/' .1' 07;' ?10' ?1C/' :.1' /5J;424/'' 07;'
A15' A75A/2545=' ./' A7 A.' .1>45=' 150' </6;4/'' 1' '
/2?145'

H' '.1>/' 57 .45=' 7' 27;@9/' 07;2' 72<'.46' :4 94' A75F
A/2545=' 150' 78' ./' 7 ./2' 612 4A;912'' ?/5 475/<' 45' 07;2'
91'' 9/ /2' ' 1?# :4.' 199' 2/'6/A # ?0' 72<# 07;2'
72<'.46&'' ?7'' 7@/<4/5'.;?@9/'' /2>15 #

' +

$;'' 1' 0/12' @/872/' ./' 87997:45=' 9/ /2' :1'' 1<<2/''/<'
L@0' C92' 12<# '/A2/ 120M' 7' 72<' 15A./'/2# ./'
81?7;'' 15<' 9;AC9/''' A7 4'.' A7?6150' .1<''/5' 848 0'
'.46'' 15<' # ' ?/5' 7' ?1C/' 1' '/ 9/?/5' 75' ./'
'.?;'' 78' 124/5' 8' ./'';<</5' @2/1C45=';6' 78''; A.'
15' /' 1@94'.?/5 # 4' :1'' .7;=.' 5/A/''120' 7' 215'?4'
45 /994=/5A/' 7' ./' 5=.'.' 1?@1''1<72' 1' 124'*1''
';A.' 1' 5;?@/2' 78' A7 '?/5# <4'166745 /<' 15<' 91AC.4='
?/15'# ?4=.'@/A7?/' 45' 2;?/5 '' 78' ?4'A.4/8

' ' ' '

F' 54 N ,C+' " ''
' ' ' ' ' ' .4'' ?72545=' A1?/' 45' 9/ /2''
827?' 42' 4 41?' //' 75# 7>/2572' 78' $1?14A1# <1 /<

: 72C ? 15 4 =75/ 199 . / 7884A/ : 4 ' /2>/ 872 4 7 . 1>/ 1 A75>/54/5A0 45 4 872 ' /5<45= 07 ; 2 OA/99/5A0 '7 ? / 612 . 1 ? / 5 5/ : '# 15< : 4 '. 4 ? 10 @/ ' ; A . 1 07 ; : 499 . C/ 7 ? / . 1>/ 192/1<0 / ? 6970/< . /42 6/5 45 : 24 45= 1 61 ? 6 . 9/ 1=145 ' 1 ' 15<45= 12 ? 0# 1 57 45 . / 9/1 ' 7 @/ @725/ @0 1 82/ / 6/769/ . /0 : 7 ; 9< 1997 : 5L8 . 45= 7 @/ C/6 75 877 /OA/6 07 ; 2 OA/99/5A0& 0/7 ? /5 78 . / = ; 12<# 15< 1 A7 ; 5 20 ? 494 41 ; 5</2 5/ : 2/ = ; 91 475 ' ; A . 1 : 7 ; 9< 57 9/1>/ ; /4 . /2 1 '79<4/2 72 1 697 ; = . ? 15 45 5=915<# @ ; '7 ? / 1 : C : 12< A2/1F ; 2/ ' @/ : //5 @7 . / ' ; 667 '/ . 4 ' 7645475 : 499 @/ ' 275=90 ' ; 6672 /<# @ ; . 76/ . / 2/1 '75 ' 78 '18/ 0 ? 10 @/ . / ? 7 ' 62/>19/5

H /' <7 57 ' =7 75 : 4 . ' <4 '@15<? = . / /5 2/=4F ? /5 '# 1 ' : 1 ' 75A/ . 7 ; = . ' 78# @ ; ' : / 12/ ; 2545= 4 ' 45 7 1 2/872 ? # @0 C//645= ; 6 . / 7884A/2 ' 15< 2/ < ; A45= . / 5 ; ? @/2 ' 78 ? /5# : . 4A . ' ? 150 12/ : /99 /57 ; = . ' <4 '67 '/< 7# 627>4</< . / 6/769/ . /0 ? ; ' ' 610 12/ 78 . /42 7 : 5 51 475 ' ; 2 6 ; 2 ' / ' : 499 57 ' . 79< 7 ; ' 7 ? 145 145 199# 15< 7 =4>/ 150 62/8/2/5A/ 7 ' 215=/2 ' 166/12 ' 7 '7 ? / 78 >/80 . 12< <4=/ ' 475

H . / C45= . 1 . ' . 1< 1 '64A/ 78 . / =7 ; ' 944 ' : //C# 72 '7 ? / . 45= >/20 94C/ 4 # . 1>45= . 1< 1 6145 45 . 4 ' C5//' : 4 . ' . 4 ' ' : /9945=# @ ; ' 4 ' 4 ' 57 : ' 62/ 0 : /99 7 > / 2) 4 ' 4 ' . / 7590 <4 ' / ? 6/2 . / A15 . 1>/ . 1 ' : 499 57 ' <4 ' ; 2@ ; ' ' ' ; 667 '/ 07 ; 2 OA/99/5A0 . / 12< @0 . / 91 ' ' 67 ' ' 78 1<0 ; '& </1 . ' . / <4/< . 1 ' <10 45 A . 49<@/< 78 1 ' <1 ; = . /2# : . 4A . ' . /0 '10 : 1 ' @27 ; = . ' </1< 45 7 . / : 729<(. / ? 1C/ ' 1 61 ' '4751 / : 4<7 : /2 ' . / 129 78 $/2 ' /0 : 1 ' ' : 725 0/ ' /2<10 78 . / 24>0 7 ; 5A49

H 0 72< 72 915< 19C ' 78 =745= 75 . 4 ' / ? @1 ' '0 : 4 9445 1 ' ? 75 .

H ' 1 ?# : 4 . ' =2/1 ' 2/ '6/A # ? 0 72<# 07 ; 2 OA/9F 9/5A0& ? 7 ' ' 7@/<4/5 ' 15< 814 . 8 ; 9 '/2>15 #

. / 155/0/< 821=? /5 ' 78 15 ; 5 '4=5/<9/ /2 2/8/2 ' 7

/>/20@7<0 A758/''/' .1 7590 7=/2 4'' 84 /2 .15 7 @/ '/5 /O62/'' 5 1 ;2<10 ?72545= ?0 72< $/2'/0 A1224/< ?/ 7 ./ "45= 842' 2/1< 7 .4'' 1D/' 0 : .1 07;2 72<'.46 '14< 7 ./ "45=78 215A/ 15< : .1 ./ C45= 15' : /2/< ./2/;675# 15< ./5 /O69145/< 7 .4'' 1D/' 0 ./ ';@' 15A/ 78 ./ : .79/ .1 .1< 61''/< <;245= ?0 @/45= 45 215A/ 4'' 1D/' 0 4'' '1 4'84/< : 4 ./>/20 ' /6 07;2 OA/99/5A0 ?1</# 15< 45 75/ : 72<# :/ <4< 1'' :/ 7;=. 7 <7 4'' 1D/' 0 1'C/< ?/ 1 =2/1 ?150 J;/' 475'' 1@7; 07;2 /5 20) 07; ?10 @/94/>/ : 1'' =91< 75 .4'' 7AA1'475 7 <7 07;D;' 4A/ 4'' 1D/' 0 1'C/< ?/ 1@7; ./ 215C </ 72A0&'' A71A. .1<# 15< 45 199 .4'' 188142 A15 1'';2/ 07;2 OA/99/5A0 ./ 4'' >/20 : /99 '1 4'84/< .1>/ '//5 1'' :/ .129/'' 1'' $1?/'' 2@0# 15< .24' 76./2 75 1=;) .1>/ @//5 1'C/< /5 .7;'15< J;/' 475'# 15< =1>/ ./? ./ 5/:'' 78 ?0 72< 15</>499/ @/45= 7 1224>/ 1 124'' :4 .45 .4'' '40 ?75 .'# 872 :.4A. :/ 1 :4'. >/20 ./12 490 A75 21A /< 1 A79< 45 ./ >701=/# 15< :4'/90 45A2/1'/< 4 @0 2;5545= 1@7; ./''/ >7 91'' <10' 1?'@977</< 15< C//6 ?0 A.1?@/2 7B<10# :.4A. 4'' ./ 2/1'75 78 ?0 ;'45= 157 ./2 .15<# .76/ 0752 OA/99/5A0 :499 /OA;'/ 4 ./ C45= <45/'' 7B<10 :4 . ?0 72< "7A./'/2 1 .4'' .7;'/ 5/12 4A.?75<) ?0 72< $/2'/0 4''=75/ 7 <45/ :4 .'.4? .4= 15< 720 12/# 1'' 78 79<# 4?691A1@9/ 7A 72 1>/515 4'' A7?45= ;6 :4 . 157 ./2 @77C 45 :.4A. ./ 1 1AC'' ./ 215 '# 15< 4'' L1'' 1? 79<M >/20 'A;22497;'' ;675 ?0 72< .15F A/9972 15< 7;2 </12 824/5< .129/'' .4'' 4'' .45C 199 ./ 5/:'' .1>/ C57:5 '45A/ ?0 1224>19 .1>/ 7590 7 1<< ?0 =2/1 .15C'' 7 07;2 OA/99/5A/ 872 07;2 .7'64 1. 0 15< C45<5/'''' 7 ?/ .4 215A/# 15< B:4'. 07;' ';AA/'''' 45 />/20 .45= ./2/ :4 . 199 67''4@9/ K/19 15< '45A/24 0 1? />/2# ?0 72<# 07;2 OA/99/5A0&'' ?7'' 7@/<4/5 15< .;?@9/ '/2>15 #

 ! !

. /' 72<' 7A. / ' /2'78' . /'1@7>/'9/ /2'>21"' 1 : 2/5A/'
0</#'/A75<' '75'78' . /' 129'78' 912/5<75#15<'07405=/2' a8
@27 . /2' 78' . 1 ' /520' 0</' : . 7' 97>/<' . /21 ; 2/'
15<' 94 /2120' ? /5# 15<' /O6/5</<' 1' . ; 5<2/<' . 7 ; '15<'
W445<"' 45' . /' 872?1 475' 78' 1' 94@2120)' 1B : 2/5A/' 15<'
/520' : /2/' . /' '75"' : . 7?' 912/5<75'2/A7? ? /5</<' 7'
. /' A. 124 0'78' . 129/"' # 1"' A. 49<2/5'78' 1'81 . /2' : . 7'
. 1<'5/>/2'A7? ?4 /<'788/5A/'1=145' ' . /'C45=' 2# 1B'
>/515 # 7' : . 7?' 199; '475'4"' ?1</'45' 2472&"'9/ /2# : 1"'
. /' '75'78' . /' <21?14' ' /' : 1"' 1' 57 /<' 67. 4A19'
: 24 /2# 15<' . /' =215 "' 1=145' ' : . 4A. ' . /' 57 : ' 45>/4=. /<'
: /2/' . 7' /'78' 8728/4 /<' /' 1 /"' 45' 2/915<# 7' 7?5/0#
9@/?129/# 72 915<# . 975/#B' 19 : 10# 15<' 78' . /'
624>1 /' /' 1 /' 78' " 45=' $1?/'# 1?7; 5 45=' 7' 5/1290
3# ' 1A2/'# : 72 . ' 1@7; ' 3# P ' 1BO/12# 7' 94K1@/ . '
! 4994/2'# 7; 5 /'"' 78' 2C5/0# . /' 499B81>7; 2/<' ?4' 2/''"' 78'
49. 1?

72' 6; 2/' ; 51<; 9 /21 /<' =7''46# . 7 : />/2# . /' 879F
97 : 45=' 9/ /2# /5<72'/<' H 827?' 2' ! 15@277CI' L18 /2F
: 12<"' 42' $7. 5' ! 15@2; =. M# . /' 12A. 4 /A ' 15<' A7?4A'
: 24 /2 * . /' @; 49</2' 78' 9/5. /4?' 15<' 1; . 72' 78' . /'
V' 27>7C/<' 48/'& * /OA/9"' 2472&"' (*

' A ' ' ' '

' " ,4, 9 =, -'#& ! ' '

' ' * 48' ' A7; 9<' . 45C' 78' 150' : 10' 7 ' ?1C/'
?0'9/ /2"' /4 . /2' ; '/8; 9' 72' /5 /2 14545=' 7' 07; 2' 72<B'
'. 46# ' : 7; 9<' : 24 /' 7' 07; ' 78 /5/2) @; ' 1"' 7' 1 '
12941?/5 120' 188142'# 72' 150 . 45=' . 1 ' 2/91 /"' 7'
@; '45/''# 57' <7; @ ' @; ' 07; ' . 1>/' 1' ?72/' /O1A ' A72F
2/'675</5 ' . 15' ' A15' @/# 15<' 872' 7 : 5' 188144E"' ?0'
1<0# 7' @/' '; 2/# . 1"'&/?' "' . /2'# '7' . 1 ' . /2/&"'>/20'
94 9/' 9/8 ' 872' ?/' 7' '10' 7' 07;) . 7 : />/2# ' . 45C' '
'. 7; 9<' @/' 7' @91?/' 48' ' <4<' 57 ' : 24 /' '7?/ . 45=' 72'
7 . /2# . 1 ' 07; 2' 72<'. 46' ?4=. ' 57 ' '; '6/A ' ' . 1>/'
872=7 ' ' 1?' 7@94=/<' 7' 07; ' . /' . /1 ' 78' . 4"' '/''475'
'//?"' ?; A. ' 1@1 /<# '45A/' . /' @1 9/' $1AC' 7 : ' 15<

.4'' 1<?42/2'' .1>/ .1< 45 ./ 1 1AC ;675 ./ A7?B ?4''475 1=145' 021 /' .1'' 76/5/< ./ /0/'' 78 1 =2/1 ?150 :/99B?/1545=' =/5 9/?/5 78 ./ A7;5 20 612 0# :.7# @0 .4'' 4581?7;'' 627'/A; 475# 1AA7;5 ./0 7;=. 7 977C ;675 .4?' ?72/'1''1<4'A75 /5 /< A7;2 4/2 .15 1' 61 247) 15< 1'' 45 .4'' >7 / ./0 9/8 .4?# '7 1@;5<15A/' 78 &/?# 57 :' ./0 12/'1'.1?/< 78 .4?# 1'' ./ </A912/'' ./ 4'' 78 ./?# ':/1245=' ./2/' 5/>/2 :1'' @/872/' ';A.' 1' A2/:' 78 27=;/'' 1'' .4'' 12941?/5 /' .1< =2/1 .76/'' 78 &/?' 91' '/''475'#E./' '10'# @; 57 :' ./ =4>/'' &/?' 7>/2' & ':1''>/20 .1660 .1 '45 .4'' J;/' 475 ./' ?1D724 0 :1'' '7 =2/1 # 4 9/8 57 277?' 7'62/ /5< 94/' A7;2' @27;=.' 788 ./' A7? 4/2')@;' L4 M />4</5 90 166/12/<# ./' D;' 4A/' 78 ./42 A1;'/' 62/'/2>/< &/?# 15< ?1</' 1'=2/1 ?150 >7 /' &/?' 4557A/5 # :.7 :7;9< .1>/' @//5 ./12 490 =91< ./0 A7;9< .1>/' 87;5< &/?' =;49 0 ./' 24'.' 215 '' .1>/' =75/' '?77 .90 .4 ./2 7 ./' 2/672 ./' 7??4''475/2''=1>/' 45 :1'' ./' A9/12/'' 15< ?7'' /O1A .45=' 78 ./' C45< .1 .1< @//5 <75/# 15< 199 612 4/'' 45 ./' 7;'/''//?/< :75</284< 69/1'/< :4 .' 4) 2' 75 1=;'' '67C/' >/20 8215C90 872 ./' 4 # 15< '14< .4'' A75A/25 45 ./' ?1 /2 '.7;9< @/' 812 827?' 45F 89;/5A45=' .4?# 15< .1 '57@7<0 '.7;9< @/' ?72/' 872 ./' 61''45=' 78 4 ' .15 ./' />/219 78 .7'/' 215 '' 12/' 87;5< 627<4=47;'' =2/1) ?0 72< 72 915<&'' 4'' 1' .;5F <2/< 15< 872 0 .7;'15< 1A2/'# 15< ?0 72< 9@/?129/&'' 1'' ?;A.' ./2/' :1'' 45 ./' 12 4A9/' .1 '2/91 /< 7 ?0 72< 7?5/0 ''/>/219 4/?'' :4 .' .4?) .2//' 78 ./' 7??4''475/2''2/8;'/< 7 '4=5 7 .4'' 612 ' 78 ./' 2/672 ' 1'' 15 ;55/A/''120 6/2'7519 2/89/A 475# @;' ./' 2/'' ' :7;9< .1>/' 4 ' 45 872 ./' D/' &'' '1C/' 7 6;' ./' 7;'/' 78 7??75'' 45 7 =77< .;?7;2) :.4A.' 4 '<4<# 872 />/20F 75/' 91;=./< >/20 ./12 490 ' 772 42 $7.5 .49946'' :1'' '/5 '872 7;' 78 ./' 7;'/' &7 ./2 <10 45 7 /' ?45' /2 1 ' 15< A;<=/99/<# :.4A.' ./' 77C :4 .' ./' 61 4/5A/' 78 15 167' 9/# :/5 ' 1=145 45 7 ./' 7;'/# 79< &/?' .7:' ./' .1< @//5 '/2>/<# </A912/< .4'' A75'A4/5A/' :7;9< 57

9/ .4?84=. 15< </'42/< ./0: 7;9< 1C/ ./J;142/9 ;0
;675 ./?# :.4A. ./0 <4<# 15< .1>/ 72</2/< ./
1''14915 45 7 A;' 7<0 & :1'' 75/ 12A7;2 <4< 4
;675 1 91:';4 @/ :/5 &/?# 57 1'' 1 A.1?6475 872
4??72194 0# 15< 627815/5/''# 1'' 07;2 72<'.46 :7;9<
@/16 J4?1=45/# 48 <4< 57 /99 07;' 94/ A75 2120
H /19&'' </1<) ./'91'' :72<./'?; /2/< :1'' V 1.'B
@?0& ./0 '10 ./ .1'' ?1</ ./2 '79/ /O/A; 24O) '
<7 5&' C57:' : ./ ./2 4 @/ 2;/ 2 / :75 4'' 94C/ 7
.1>/ .4'' 691A/ 45 ./ 45
H 4'' >15'# ./ <15A/2 1 ./ 5/:' 6910.7;'/# 4''
</1< 77) 1 8/>/2 '9/:' ./2 45 /4=.' 15< 872 0 .7;2''
./&'' ?;A.' 91?/5 /< @0 ./ 7:5 1'' :/99 1'' @0 ./
.7;'/# :.4A.' A15&' :/99 @/12 ./2E97''# ?1 /2'' 2;5545='
>/20 97:' : 4 .'&/?' .4'' :45 /2 8 75=2/>/&'' 6910 <75&'
./96 &/?' ./0 12/ ;5<75/' & '4'' 1 A7?/<0# 15< :499
@/ 6910/< 1@7;' '4O :/ /C'' ./5A/' 7@7<0 .1'' ''//5
4 '0/
H D />/24<=/'4''45 2/915<' /'7:/''7 ?;A.'?75/0 ./
<12/'57 A7?/7>/2# '7 872 :15 78 .4?':/ .1&5&' .1<
1840 76/21 6910/< .4'' :45 /2# .7& ;2A/99 .1'' '/' 75/
5/:' 75/# 15< 45=12 157 ./2 /'.1>/'=7 ./:7?15
84E7?' ./ ./'.42/ .//'/ ;675 ./'' 1=/# :.7 .1'' ./
@/'' >74A/' 872&' @0?;A.' .1 .1'' @//5 ./2/' 1 150
4?/' /'.1>/ ./ ?6/272&'' A277C/< /;5;A.' ./2/#
215A4'A7 L /5/'457M) ./0 =4>/'.4?' 1B.;5<2/< 15<
:/5 0 =;45/1'' 872 84>/' 4?/'' /'.1'' ';5=' 75A/' 15<
:1'' :/99 .C/<' 7==/' :1''./2/'91'' ://C) ./0 =1>/'
.4?' .42 0 67;5<'' 7 1A ''4O 4?/'# :.4A.' ./ <4<# 15<
84 /< ./.7;'/'/1A.' 4?/
H 0 1<0 2=91''# .1>45=' @//5 872 '7?/' 4?/';5</2
' 275=' ';'64A475'' 872 67AC/ 45=' '7?/ '?199 =77<'# @0
./'@0# 45 '.76'# :1'' &7 ./2 <10 A1 A.&' ' /1945=' ' 72
-' 815'' 1 2'' 77?/'' L .7?/'&'M# :.7 ?1</ ./2 2/F
8;5< D;'' 1'' './ :1'' =/ 45=' 45 7 ./2 A71A.' ./
?7@' 62/'/5 90 =1 ./2/< 1@7;' 15< ?1</' 574'/' /57;=.'
0 1<0 12 ?7;.' :1'' :4 .' ./2# 15< 1<0 / 0

27? : /99# : . 7 4 '' '4AC ; 675&# 15< C//6 '' . 7 ; '/ . 4 '' .45= 4 '' '/247 ; '90 2 ; /

H ' . 1>/ @//5 . 4 '' ' ; ? ? /2 1 ' ? 0 72< 12 . '9/&'# 15< '//5 ?7' ' 78 . / =2/1 ' . 7 ; '/ '' 45 . / 572 . * 1 '' 72< 7 45=. 1?&'# ; C/ 78 //<'&# . 1 ' : 72 .# / A ' ' 10/< 1 ' . 1 ' : 72 . ' 87 ; 2 72 84>/ <10'# . / < ; C/ @/45= . /2/ ' ' . 7 : /< . 4?' 199 ? 0 72< 12 . '9/&'' </'4=5'# : . 4A . ' . / '14< : 1'' J ; 4 / 157 . /2 .45= .15 : . 1 ' . / 4?1=45/< 827?' . / A . 121A /2 07 ; 2 72<' . 46 =1>/ . 4?' 75& ' / 1@'79 ; /90 16627>/< . / : . 79/ </'4=5# 612 4A ; 91290 . / 97 : ' : 45='# : . 4A . ' . / '14< : 7 ; 9< . 1>/ 15 1<?421@9/ /88/A ' : 4 . 7 ; ' <772'' 1'' : /99 1'' : 4 . 45# @/45=' 1<725/< : 4 . ' . 7'/ 7251?/5 '' 78 6491' /2'' 15< ; 25'# : . 4A . ' . / 5/>/2 . 7 ; =. ' & @44 ' A75A9 ; </< & : 1'' 7 @/ 1 69145 97 : ' @ ; 49<45=' . C/ 15 7215=/B . 7 ; '/ ' . /2/ . 1'' @//5 1 =2/1 ' ?150 A24 4A'' A75' ; 9 /< ; 675 4 ' '45A/# 15< 57 75/ 7@D/A 475 @/45=' ?1</ 7 4 # . / ' 75/ 4'' 214'45=' 15< . / 87 ; 5<1 475 : 499 @/ 914< 45 . / '6245=' . / ?7</9 4'' 62/61245=' 45 : 77<# : . 4A . # : . /5 <75/# 4'' 7 21>/9 7 " /5'45= 75# : . /2/ . / C45=&'' . 7 ; = . '' ; 675&' 12/ 7 @/ . 1< ' <7 5&' 845< . / ; C/ 78 //<'' . 45C'' 78 =4>45=' 2 ' 150 27 ; @9/ 1@7 ; ' . 4'' 691A/) 1U9/1' ' . / 19C'' 1'' 48 . / : 7 ; 9< 57 # 91045=' 4 ' ; 675 . / ' ? 199 </ ' ' /2 ' 78 . 4'' '75# : . 7 . / '10'' <7/'' 57 ' ? /24 ' . 4'' . /96 45 4 ' . / ; A . / ' '' : 1'' 7>/2 ; 25/< '7?/ 4? / 1=7 A7?45=' 827?' 4?@9/ 75 @0 72A . 94=. # 15< '7 </'6/21 /90 @2 ; 4'/<# ' . / . 1'' @//5 1 ' . / @245C 78 </1 . ' : 4 . ' 4 # @ ; ' 4'' @/075< /06/A 1 475 2/A7>/2/< 7 691=; / . /2 . ; '@15<# . /2 '75# 15< ?150 7 . /2'# '7?/ 4? / 975=/2 ' /872/ ' /5< ?0 9/ /2 ' ? ; ' ' A75=21 ; 91 / 07 ; 2 72<' . 46 ; 675 07 ; 2 ' ; AA/ '' 45 : 75</28 ; 990 7@. =45=' 199 . / 5=94' . ' : . 7 . 1>/ @//5 1 ' 124'' '45A/ 07 ; 2 A7?? =' . /2/# : 944A . ' ; 675 ?0 : 72<' ' 1C/ 7 @/ 57 /1'0 ?1 /2 ' ; ' 07 ; ' . 1>/ <75/ 4 ' /88/A ; 1990) 872 75/ 15< 1 ' '6/1C 78 4 # 15< />/20@7<0 . /2/ 4'' =91< 7 . /12 75& ' ' 2/?/?@/2 07 ; ' ; ' /< 7 '6/1C 78 4 # @ ; ' ' . 7 ; = . ' 4 ' /1'4/2 45 /5</< . 15 /O/A ; /<' ' 1?' . /12 490 =91<# . 7 : />/2# 4 ' ' ; /B

A//<'# 57@7<0 :4'.45= ?72/ ./12 490 07;2 72<'.46 ?10 A7?/ 788 :4 .2/6; 1475# .15 07;2 ?;A. 7@.=/< 15< 814 .8;9 .;?@9/ '/2>15 #

H$ 8 &

H .24?6 75 4" :/<</< 7 2' 1;5</2'# 15< /590 4" 5/12 ./ ?1 /2 :4 . .4" 842' A7;'45# 79< /24=245/&" 07?4=/' <1;=. /2 * 1 ?/ 9/<D1</

H 210# ?0 72<# ?0 .;?@9/ '/2>4A/ 7 ?0 1<0# :.7 1?. /12 490 =91< 7 ./12 .1" ./2 ./19 .@/ /2 .15 1 842' 72< 12@/220 71' " ./2 :4 . 15 /OF /?69120 A75' 15A0

H 45A/# /5</< ?0 9/ /2 ';66/< :4 . [R 2 75F 1=;# :.7 /99" ?/ 2 /:75 4" 1' /2 78 ./ 45) 159/0# 12</5 7;2 ?74# D/ ';4" 7; A7??/ D&Y 14' I

./ J;/' 475 78 ./ 24'. 215 " :1" 57 </' 45/< 7 =7 '7 '?77 .90 1" 42 $7.5 !15@2;=. ';667'/" 45 ./ 1@7D>/ 9/ /2 9449/ ./ :24 /2 :1" A7??;54A1 45= .4" 5/:'# ./ 7??75" :/2/ 2/'79>45= 7 @2?= 45 1 @499 7 2/';?/ 199 =215 " 78 915< 15< 2/>/5;/ 45 2/915<# ?1</ '45A/ ./ " />79; 475# 15< 7 16690 ./ '1?/ 7 6;@.A 6;267'/' ?75 .72 :791 /2# ./0 914< ./42 2/'79; 475" @/872/ ./ C45=# :.7 8/9 .?E .1 ./ A7;9< 57 =4>/ 1:10 7 .4" 814 .8;9 87997:/2" :.1 .1< @//5 8728/4 /< 7 944?'/98 /' '7?/:.1 '12A1' 4A1990 ';=F =/' /< 7 .4" 772/?75' 215 7??75" .1 ./0 :7;9< @/@/ /2 /?6970/< 45 2/<;A45= ./ 51 47519 </@ # 15< 45 2/' 7245= ./ 6;@94A A2/<4 ./ 7??75" A7;9< 57 # 78 A7;2'/# 1C/ 6/2'7519 788/5A/ 827?' ./ C45=# @; . /0 77C A12/ 7 45 4?1 / .1 :.7/>/2 .1< A7;5'/99/< .4?' 7 ?1C/';A.' 1 2/690 :1" 57 824/5< 7 ./'/' 1@94'.F ?/5 78 =77< 8//945= @/ ://5 ./ '7>/2/4=5 15< 944" 6/769/' ./2/;675# ./0 </'61 A./< :/99B614< A7?F ?4''475/2" 7 1C/ 1AA7;5 78 ./ 8728/4 /< /' 1 /" 45 /915< ;2 ./2# ./0 2/'79>/< .1 ./ 61''45= 78 /O72@4 15 =215 " :1" 1 .4=.' A24?/) 15<# 1AC45= 1

?75/0B@499 15< ./ 2/'79; 475 7 2/';?/ ./ =215 ' 7=/ ./2# ./0 872A/< ./ 72<' 7 1AA/6 @7 .(49941?@/45= :49945= 7 04/9< 45 75/ 6745 # 1' ./ :1' 45 4??/F <41 / :15 78 ./ ';6694/' :.4A.' 612941?/5 :1' 2/1<0 7 >7 /

./ A;<=/9945= 78 15 .757;21@9/ ?/?@/2 4' 79< :4 . 1 '0?61 .4'45= </.= . 75 ./ 612 78 ./ 51221 72 : 1' 57 '7 975= '45A/ 6//2' .72'/ :.466/<# 45 6/2'75 72 @0 62700# 788/5<45= 67/ ' /2'7519 A.1' 4'/?/5 ' :/2/ 94=. 90 A75' 2;/< ./2/ 1' 45 215A/# :./2/# .7 :/>/2# ./ 61 4/5 7AA1'4751990 A7?69145/< ./ A7;2 78 ./ 91 /2 A7;5 20# 1 '1 424A19 2.0?/2# :.7 .1<' @//5 '7;5<90 891=/991 /< @0 ./ '1 424'/< 612 0# 166./< 7 ./ 1;.724 4/' H .1 <7 07;' :15 SI :1' ./ J;/'F 475 6;' 7 .4?' H $;' 4A/NI 2/694/< ./ '?12 45= >/2'484/2 H .# 4 .1' 192/1<0 @//5 <75/NI :1' ./ 7>/2 :./9?45= 2/D745</2

./ 2/8/2/5A/ 7 /: 75 2/?45<' ;' .1 .4' 78984A419 62/'/5A/ 1 ./ 45 # 1 199# :1' 7:45= 7 .129/' 75 1=;# 18 /2:12<' 129 78 19481O# /: 75&' 79<B 824/5< 15< 8/997:BA7 /=415 ./5 75 1=;' :1' .15A/9972 78 ./ OA./J;/2# 15< :1' 1@7;' ./ =2/1 ' :72C 78 2/A74545= ./ ?75/0# ./ 627A;2/< 827?' ./ C45= ./57?451 475 78 /: 75 1' 12</5 78 ./ 45 ' 76/.1' '5//2/< 1 ' ./ =2/1 ' 6.497'76./2# /: 75# 45 627'/# 1' ./ .1' <75/ 1 ' ./ =2/1 /2 6.497'76./2 1A75# 45 >/2'/ /: 75 2/5</2/< .4=.' '/2>4A/ 7 ./ 51 475 1' 12</5 78 ./ 45) 15< .4' 627?7 475# 199;</< 7# 1' 1' /2# >4.' 1 '19120 78 5/1290 848 //5 .;5<2/< 1 0/12# :1' 15 1A ' 78 D;' 4A/ 21 ./2 .15 78 2/A7?6/5'/ ' 2/>47;' 7 .4' 842' ' 166745 ?/5 # 691A/' 45 ./ 45 ' :/2/ A758/22/< 75 ./ <15=9/2' 1@7;' A7;2 # :.7 5/>/2 .7;=.' 4 ' :72 .' ./42 :.49/ 7 6/2872?' 150 7 ./2 <; 0 78 ./42 7884A/# .15 .1 ' 78 2/A/4>45= ./42 '19124/'

./ ./1 24A19 5/:' </'/2>/' 1 :72< 72 :7 78 499;'F 21 475 ./ 7:5# 45A75'791@9/'872 ./ 97' ' 78 1' <15A/2# :1' 57 ' ?1</ ?/220 @0 75=2/>/&' A7?/<0# V ./ 10

78' ./' 729<#&U:944A.' :1'' A79<90' 2/A/4>/< 1 ' 45A795&'' ?
55' 4/9<'# /1290'45' , #</'64 /' '7' @2499415 ' 1' h91F
?15 ' 1'' 2' ' 21A/=42<9/# :.7' /O/2 /< ./2'/98' 7' ./
; ?7' ' 872' ./2' >/20' 612 4A;912' 824/5<# ./' 1; .72 '
75=2/>/# <4'=;' /< :4 .' ./' 6;@.A# :27 /' 57' ?72/ '
/>/24<=/# 51?/< 45' ./' 9/ /2# :1'' :/99BC57:5' 15<'
1662/A41 /< 45' .4'' <10# 1'' 4AC' />/24<=/# ./' @1''B'
'45=/2# 1 ' ./' ./1 2/' 45' 45A795&'' 55' 4/9<'# 15<' ./'
A7?67'/2' 78' ?150' 1'D7>419' '75=' .42 0' 0/12'' iD#8 /2
.4'' 9/ /2' :1'' :24 /5# />/24<=/' 788/2/< 7' :1=/2' 1'
.;5<2/<'=;45/1'' .1 ' ./' :7;9<' '45=' 1' @1'' '75=' @/ /2'
.15' 150' ?15'45' 5=915<Ñ 4'' A788//B.7;'/'45' 1>4'F
7AC' 2// # 7>/5 ' 12</5# :1'' 1' 691A/' 78' 2/'72 '
872' .7'/' :.7'97>/< />/24<=/&'' 8444/'>74A/#21 ./2'A712'/'
:4 # 15<'67:/2' 78'A75>/2'1 4J5# * J;194 4/'' :.4A.' ?1</'
4AC' :/9A7?/'45'1 'D707;'' 821 /254 4/' ' 94/5' 79<'1=/'
15<' 45842?4 0' A1?/' ;675'.4?# ./' :1'' 57 ' </'/2 /<'4d0'
./' @775' A7?615475'' 78' ./' 61' '72' ./' 62/'/5 ' 4?/ '
./0' ?1</';6' 15' 155;19' 6;2'/' 872' ./' 15A4/5 '>7A1.' #
:.7' /5D70/< ./' @7;5 0' h9' ./' :1'' A97'/' 75' .4'' 545/F
4/ .' 0/12

./2/' 4'' 1' ?72/' 81?7;'' 51?/' .1 ' 87997:' * + ;2A/99#
@;' 4 ' 4'' 57 ' .1 ' 78' ./' 81?7;'' /520#:.7' .1<' H'=75/'
7' .1 ' @9/''/< 691A/':./2/' 7590'.4'' .12?750'A15' @/'
/OA//</<#I'45' 3 -' !15@2;=.'2/8/2'' 7' /520&''@27 ./2#
154/9#:.7' .1<''/' 15'76/21' 72' :7':4 .' .1 ''72 '78'
79/21@9/' ';AA/''' :.4A.' 45<4A1 /'' ?7</21 /' 1@494 0' 75'
./' 612 ' 78' ./' A7?67'/2' /520' 4'' 4??72 19' 1''
H'?45' 2/9 I' 154/9' :1'' '1 4'84/<:4 .' @/45=' ./' 842' '
?15' 78' .4'' 4?/' 1'' 1' 6;5' /2' 7 824/< 45=/2' :1''
A.16/9B?1' /2' 7' 75=' $1?/'#:.7?' ./' /2?15' <4<'
57 ' A12/' 7' 87997:'45 7' /Oh/ ' /' 15<' 154/9' ;2A/99'
:/2/' 1@7;' ' /J;1990' H 2/'6/A 1@9/I' 1'' A7?67'/2'

7==/ ' ./' 1A 72' .1<# 1 ' .4'' 4?/# @//5' /4=.' 0/12''
75' ./' ' 1=/# 15<' :1'' ./' 724=4519' 2/62/''/5 1 4>/' 78'
75=2/>/&'' /5# 45' V 7>/' 872' 7>/& .4'' 57 4A/' 78'
.4'' ://C&'' /5=1=/?/5 # 1 ' 1'' ?;A.' 6/2' 54=.' 1'' ./

!

=2/1 / /2 75 : 1 2/A/4>45= : //C9O# 4 . /842' 45' 15A/ 78 H ' 12245=I 18872</ @O . / 15519 78 . / 5=94'. . /1 2/ ; " ' (" . / 1<O 2=91''# : .7'/ H "9/6 7?1541I </624>/ 2' . 725/' 78 . /2 815'# : 1' 1 <7 : 1=/2 A7;5 /'' 78 . / 24'. 6//21=/# : .7'/ 972<# . / 91' 78 . 4' 945/# .1< <4/<# 45 3Q .1 1<O / O 27?: / '.7;9< @/ H'4AC ;675 4 I 15< HC//6 .7;'/#I : 1' 7590 51 ;219# 872 6772 1<O / O : 1' . / A7;5 /''&' <1;=. /2# 15< : 1' 2/1'751@9O 1'.1?/< 78 . /2 87794'. 79< ?7 . /2&' 6276/5'4 4/'# 15< . / 27;=. A7??/5 ' ?1</ . /2/75 @O 1 75<75 ?7@ !15@2;=. .1< 192/1<O 1A.4/>/< 2/6; 1 475 1' 1 <21F ?1 4' # @O " A7?/<4/'# V . / /916'/& 15< V . / 27F >7C/< 48/#&* . / 8<2?/2 78 : A. .1' 2/A/5 90 @//5 627<;A/< 75 . / 2/5A. ' 1=/# 1' 15 /1290 6910 @O ! 79F 142/ ! 15@2;=. : 1' 1@7; 7 1A.4/>/ 157 . /2 2/6; 1B 4J6 1' 12A /A # @O @;49<45= 1' 9/ 7 : 12<# 872 . / 129 78 1294'9/ . / ;A./'' 78 //<'# 78 : .7? ! 15@2;=. '6/1C' '7 <4'6121=45=9O# : 1' 24<=/ # <1;=. /2 78 75 1=; /2 4/# 2< 129 78 45<'/0 /2 . ;'@15< : 1' . / 129 15@O 78 "45= $1?/'&' <10'# 78 : .7? 49.1?' ?1</ 1' <;C/# 7 94=. /5 .4' ;9 4?1 /' 8199 827?' 67 : /2 8 . /' '75# /2/=245/# 872 : .7?' ./' 166/12' 7 .1>/' A12/< '7 94 9/# ;25/ '2/?12C' .1 ' ./' H : 1' 15 /O 21>1=15 ' ?15 @7 . 45 .4' 69/1';2/'' 15< .;?7;2')I ./' ?4=. ' .1>/' 1<</<# 1 A12/9/'' 75/' 78 .4' A7;5 2O&' .757;2# 872 : ./5 ./' 910 : 4 .' 1 51>19 'J;1<275# 788 A499O# ./' ?4' 77C 1 A7?6150 78 ?/2A.15 ' '.46' 872 ./' 2/5A.' 89//' A7?45=' <7 : 5 ;675 .4?# 15< 872 . : 4 .' J;4 /< .4' ' 1 475# 15< 77C '. /9 /2 45 49872< 1>/5

72< 12@/22O# : .7 71' ' ?0 91<O 15A./' /2# 45 !15@2;=.&' 67' 'A246 # : 1' 1' '75 78 .1 ' 4A.12< !1;=.15# 1 ' : .7'/ .7;'/ * 79</5 27>/# 1/2?12 ./5B '.42/ * $/88/2O 10972# .4' 2/8;=//'=;/' # : 27 /' '/>/219 78 .4' : 72C' ' ./' 72< 12@/22O 78 ./' 67' 'A246 ' .1<# 1' ./' 2/5A.' '10# H 94>/< .4' 948/ I' 5 .129/' &'

<10'# /60'' '67C/ 78 .4? 1'' 1 2/6; /< H9/ : < 8/997 :#
: 72'/ .15 42 .129/'' /<9/0#I 15< 15 /5/?0 7
912/5<75 4'' A.121A /2# .7 : />/2# 4?627>/< : 4 .
4?/# 15< 45 .4'' 79< 1=/ : 1'' 19?7' 2/'6/A 1@9/
/ : 1'' : /99 >/2'/< 45 . /21 ;2/# @/A1?/ 62/'4</5
78 ./ 7019 7A4/ 0# 15< : 1'' 166745 /< 27>/2572
78 $1?14A1 72< 12@/220 : 1'' 75/ 78 20</5&''
/1294/' 61 275 ') 15< ./ .1< 1 212/ 94@2120 * ?;A.' 78
4 78 ?0' 4A19 <4>454 0

5 ./ 5/O 9/ /2 ./ 1?@1''1<72 4'' ?1C45= .4?'/98
H1 .7?/I 45 124'# 15< 75 6245A469/'' : .4A.' ?/24
A7??/5<1 475 7 7 : /' 57 ?15 150 .45= : 1'' ?;A.'
?72/' 1 ?1 4?' 78 .4'' 7 : 5 .15 78 .4'' ?1' /2&'

 ;)

99 ! " $ -/00

H 99 .45='' 12/' /O 21>1=15 # ?;A.' ?=2/
.15 A7;9< 4?1=45/') '7 ./ 5/A/''124/'' 78 6/769/ ./2/
12/'';A.' .1 ./0 A1557 ' 10 150 4?/ ./ ?/ .7<
 .1>/ .4 ./2 7 1C/5 4'' 7 610 />/20 ?75 .# : .4A.' 4''
?;A.' 7 ?0 2/6; 1 475# 4 4'' 2;/# 57 : 4 .' 15<45= ?7'
78 ?0 /J;461=/ @27;=. 827?' 5=915<') 0/ ?0 /5 20
.1'' A7' A75'4</21@9/') ./ '1 4'81A 475 .1>/ 4'' .1 4
: 1'' /O 2/?/90 16627>/< 78 ./2/# : .4A.''/9<7?'.166/5''
45 215A/ .1>/ 19'7 .1< ./ =77< 872 ;5/ 7 7@.=/
199 ./ 5=.'.# 1'' @/94/>/ 07;' : 499 845<B : ./5/>/2 07;'
'// ./?) ./'/ .45='' A1557 @/ <75/ @; @0 94>45=
: /99# .7;=.' 1 62/''/5 4 4'' =2/1 /O6/5'/) 0/ 1 91''
4 ?10 ;25 7 ?0 1<>15 1=/ I

[\ \ \ \ \ \ \ \

./ ';@D745/< <7A;?/5 4'' 75/ : .4A.' 4'' 45 4 '/98 1
?0' /20# 15< : .4A.' </19'' ?0' /247;'90 : 4 .' 4 ./
9/ /2# 62/''/2>/< 1 "4?@79 75# 4'' <1 /< 7>/?@/2 # % #
3 # : 4 .7; ';@'A246 475 78 '4=51 ;2/# @; <42/A /<
.;'(H 75'4/;2 27A 72# A./K ! 412<# C 7'?/#
<15'' 91 2;/ </ 91 126/# 124'#I 15< : 4 .' 15 /5<72//B
?/5 45 ./'/ : 72<'# H 72< 4<<9/ 75&'' 9/ /2'' A1?/

54

;5</2 1 A7>/2 <42/A /< . ; '(/ >/ 'J ; / $/15#
15J ;4/2# 124'#I '//?'' 7 .1>/ @//5 75/ 78 . / 45 /2F
A/6 /< $1A7@4 / 9/ /2'' V: .4A.' 8/99 45 7 . / .15<'' 78 . /
5=94' .' 1?@1''1<72' . /2/ 4'' ?0' /20 /57 ; =.' 45 . /
' 09/ 15< /O62/''475# : .4A.' : /2/ <7 ; @ 9/''' '; 884A4/5 90
45 / 4=4@9/ 7 . / A722/'675</5 ' 7 : .7?' . / ?4''4>/
: 1'' 1<<2/''/< * : . / . /2 1' 2/19 72 1' 84A 4 47 ; '' 75'4/ ; 2
27A 72

5/ 199 ; '475# .7 : />/2# 45 944'' 9/ /2 ?10 @/ 2/1<490
/O69145/<' . / 1A 475 78 . / H B : 49< @712# I' 15< . /
199 ; '475 7 . / </' 2 ; A 475 78 ?75' /2'' 4'' 612 90 6/2F
'7519# 612 90 67 . 4A19' . / H 91 / 245A/ 78 19/'# I' 1''
4' : 1'' . /'81' .475# : 4 .' .4='# 7 </'4=51 / . / 07 ; .8 ; 9
'75 78 . / /OBC45=' $1?/'# : 1'' 82/J ; /5 90 1C/5# 199
07 ; 5=' 1'' . / : 1'# 7 ' .12/ 45 . / 6/249'' 15< </.=. '' 78
: 49<B@712 ' .77 45=' 45 . / 27019 872/' ' ' 5 75/ 78
./'/ 7AA1'475'# 15<' 45 . / 62/'/5A/ 78 '7?/ 94 9/ <15=/2#
: ./5 . / @712 ?1</ 1' ' 15<# . / 6245A/90 @70 .1<
/O.4@4 /< 91 ; <1@9/ A7 ; 21=/# 15< .4'' ?7>/< . / ./12 ''
78 199 . / $1A7@4 /'# 7 : .7?' < ; / A7?? ; 54A1 475 78 . /
A42A ; ?' 15A/ : 1'' ?1</# 45 . / 24 4' .' <7?45475'' 15<
1@271<

. / /O49/< C45=' '79/?590 A7?? /?721 /'' . / 1 ; '64F
A47 ; '' />/5 ' @0 4'' ; 45=' 1' ? /<19 45 .757 ; 2 78 .4'' <4'45F
./24 /< ./42' H 7=57'A/5 ' ?/4 ?/ I) !' '
* ' '' ' : 1'' . /E57 ' >/20 166276241 / ?7 7 75 . /
/O/2=; /# ; 59/''' 4 ' @72/ 2/8/2/5A/ 7 . / A42A ; ?' 15A/ 78
. / ?75' /2 : 49<B@712# />4</5 90 ' C57 : 45=' : 4 .'
: .7?' . / .1< 7 </19 ' 62/ 4/2 199 ; '475 : 1'' 7 @/ <4'F
A/25/< 75 .1 ' '4</' 78 . / ? /<19 75 : .4A.' : 1'' 7 @/ ' //5
.1 ' H >/20 <4884A ; 9 ' .45=' 7 6145 #I' 1'' . / =/5 9/?15
2/?12C'' 45 09>/' /2 1==/2 : 77<# . / H ' ; 5 @/ .45< 1
A97 ; <#I' : 4 .' . / '4=5484A15 ' 9/=/5< H ' 9 ; A/ ' / ' 91 / #I'
: .4A.' ?10 @/'2/5</2/<# * H % ' & ' ' ' '
' (& '+ ' , " - 5 . / 2/>/2'/ . /2/ : 1'' 1'
<7 ; @9/' 84=; 2/' 78 . / 94 9/' 6245A/ ' 5 . / 872/=27 ; 5<#
./ ' 77< 45 @79<' 2/94/8 * 45 . / B*=;+ 58 * +>1,0+S

45 "

15< .1 @0 54=. 7590# : .4A.4"1=2/1 27;@9/ <12/ 57 >/5 ;2/ 7 1C/ 1 ;25 45 ./ 79< =21'" : 19C# 872 8/12 78 .7'/ 27=;/" ./ 1<>/2'124/'# : .7 .1>/ 2/1'75 7 @/./>/ : 7;9<' 4AC 1 57 >4 150 7 1>74< 166/1245=' ;A.1" .1>/ 6145 /< ./? 1?/O 2/?/90 7@94=/< 7 .75/' /=7# : .7# .7;=. ;5</2 27;@9/" 78 .4" 7 : 5# 18872<" ?/1 ?155/2 78 1''4' 15A/ .1>/@//5 872A/< 7 97<=/1 @499 45 .15A/20# : .4A. : /5 # : 499 1'';2/ 007;# >/20 ?;A.1=145' ./=2145)@; .1<7 ./2 :4'/ @//5 62/A9;</< 45 6745 78 4?/# 15< ./ 2/1A./27;" 2;' //: 7;9< .1>/ ' : 1997 : /< ?/;6 1" 7 24=. '# 15< '79< ./'/1 / : 15 07;' 7 @/ 75/ 78 ./ />4</5A/'# @; '48 07;' <7 57 A7?/ J;4AC90 ' .199 @/ 872A/< 7 2;5 1 : 10 827? " !A1;'/ 5< ?1C/ 07;'157 ./2 >4'4 # : .4A. 57 .45=@; ./ /O 2/?/5/A/''4 0 72 <15=/2'.199 ?1C/ ?/2/'79>/ ;675& 1" @/45= 4? : 49.5= 7 @/ @;2</5'7?/ : ./2/ A15 <7 57 '/2>4A/ : 7;9< 57 @/ 4?6276/2 7 .45 : .1 : 24 / ./2/ 7 ;675 ./ 842' 766672 ;54 0 07;' .1>/# 15< 6210 =4>/# 45 ?0 51?/# 1 1AC57 : 9/<=?/5 " 15< '/2>4A/' 0 A7;'45 .C/ : 4'/ : 499 @/ 7@.=/< 7 =7 7>/2 7 2/915< 7 977C 18 /2 ./2 188142" L872 '. /4" @1'/90 ;'/<M 72 /9'/ 7 '7?/691A/>/20 <4' 15 827? .4" 7 : 5# 7 84>/ 18 /2 1 A./16/2 ?155/2 : 125 07;# ?0 </12 824/5<# 57 7 ?4' 1C/ .4" 872 </'675<45=# 5/>/2 .1< 75/ ';A. .7;=.)@; 48 845< ?0'/98 </A/4>/< 45 ?0 A19A;91 475" 1=145# 1" 7 4?/ ?/15# '.199 .1>/ 57 69;?67224<=/ 7 /1 # 15< ?;' 845< 7; 157 94/2 : 10 78 .>45=

H : 1";5</2 '7 ?150 27;@9/" : ./5 : 24 ?0 91' 9/ /2 .1 2/?/?@/2 @; >/20 94 9/ 78 4 # 7590 A1557 .45C 48 4 : 1" 84 7 @/ '.7 : 5# 572 '.199 '/5< 07;' 150 .1 :4 27=57' 4A1 72" '10 : /'.199 .1>/ >/20 : 12? : /1 ./2# 15< .1 .4" '/''475 4" 57 94C/90 7 @/ 78 150 975= A75 45;15A/ 72 ?0'/98# : .7 1? ' : 10/< @0 ./ 2/1'75 : .4A. 1 ./ 842' 872?/< ?0 7645475 827?# A758/'" A15 845< />/5 45 .49 '6//A. '7?/ .45= 7 A75842? ?/+ 15< A1557 @; .45C 4 7<< ./2/4" 57 .45= 78 ./ 6154'. 188142 45 4

F B*+' B,-5;4' *4+;50' 58'+B,' 6;)1' =5*-' B*?' 4B*-9,1'>?' *))' =>+' 6,' 4*005+[6;+B5>+' +-,9=);0E' -,8),4+' >C50' +B,' 1*0E,-' +5' 6)*;4B' +B;?' ?5' C-59;?;0E' *' 75>0E' C-;04,' R?' ,PC5?,1' *01' B5 ' 8*+*)' ;+' 9;EB+' B*6,' C-56,4]' ;8' B,' B*1' 9;??,1' B;?' ?B5+N =>+' +B,' 56,--> B0E' 5 6,-' 6;))' ' +->?+' =,' ,6,-' 4*-,8>)' 58' -57*)' =)551' *01' ;0' 4)>,' +;9,' /0 /2F 9;0*+,' 950?+,-?

3F B,' 9*J5-1595' B*?' ' B5C,' -,*4B,1' 75>' =7' +B;?' +;9,' *01' +B,0' B,' B*?' =-5>EB+' 75>' 0,@?' 58' +B,' 1,*+B' 58' C55-' -,*?,*-,' +B*0' @B59' 05' 9*0' 45>)1' 95-,')50E' +5' ?,,' 75>' 51')9;EB+7' B*?' =,,0' C),*?,1';0' *' ?B5-+' 6B;),' +5' 1,C-;6,' + 65' 58' 97' 8-;,01?' 58' *' ?*+;?8*4+;50' +B,7');*1'?,+' +B,;-' @B5),' B,*-+?' >C50N B50,?+' ,E5' 450+;0>,?' ;06;04;=),' ;0' B;?' 8*;+B' *01' ' 9>?+' 450J>-,' 75>' *?' *' 9*0' 58' B505>-' *01')56,-' 58' J>?+;4,' 6;+B5>+' -,?C,4+' 58' C,-?50?' +5' E,+' B;9' +->,' ;0850-9*+;50' ;0' 50,' 9*++,-' ' B5C,' 5>-' 8-;,01' @B5' C*;1' 75>' +B,' 950,7' @B,0' B,' 4*9,' 8-59' 50+*;0,=),*>' 6;))' C-56,' J>?+;0' +B,' ,01' +B5>EB' B,' B*+B' 05+' B;+B,-+5' =,,0' ?5' 4),6,-' *?' B,' 5>EB+' =>+' ^@B;4B' ;?' 05+' 8);;-V' =,,0' B;?' 5@0' 4*-6,-' *))' *)50E' =5>+' C-;)')*?+' B,' ?5)1' *' B5-?,' *?' 6,' *-,' ;0850-9,1' +5' +B,' E56N ,-05-' 58' *-;?' N ?;04,' 75>' 9*D,' +5' ,E5' 588,-?' 58' ?,-6;4,' B,' =,E?' 58' 75>' +5' 6;?;+' +);,' E56,-05-.?' ?+*=),' +5' 1;?45>-?,' +B,' 9*?+,-' 58' B;?' B5-?,' +5' D05 ' 6B*+' B,' E*6,' 85-' ;+' *01';8' *07' 58'),??' 6*)>,' 6*?' ?5)1' *+' +B,' ?*9,' +;9,' *01' C>+' 5B)[>C50' +B,' 4-,1;+' 58' +B;?' *01' 6B*+' C-;4,' 6*?' ?,+ ;675' /1A.' @0' ./' @;0/2 ' @/=' 78' 07;#' ?0' </12 8-;,01' +5' E;6,' 97' 95?+' B>9=),' 1>+7' *01' ?,-6;4,' +5' 97 72<' <<<<<<' *01' 7' B;?')*17');D, 6;?,';8' 07;' B*6,' *0 5CC5-+>0;+7' 8' 4*0' C;4D' >C' *07+B;0E' 65-+B' 4599>N 0;4*+;0E' +5' B;9' 75>' ?B*))' B*6,';+' =>+' ' *9' 95-,' ;04B0*=),' +5' -,+;-,' 85-' *' 950+B' *950E?+' ?59,' 58' 97' -,)*+;50?' +B;-+7' 5-' 85-+7' 9;),?' 588' +B*+' ' 9*7' E,+' *');++),' 8-,?B' *;-' 6B;4);' ' 6,-7' 9>4B' @*0+' >C50' 97' @5-1' 1;,>' 97' 1,*-'8-;,01' ' *9' 75>-?' ,6,-G

W;/'475'' 78' ?72/' ?/2/' ?1 /2' 78' 81A# 15<' ?72/' 76/590' 2/1 /<# 45 27<;A/' ./' 5/C' A.16 /2

?75/0 7 A94'<412=/ 944' </@ '#@; : 1' 7@94=/< 7 1C/ ;6 ?75/0 827? @4' ? /2A@15 ' 15< =1>/ @499' 7 2/610 ./ '1?/ 45 1 '.72 4?/ ./2/ 45 75<75# =2/1 612 :./2/78 2/?145' ;5614<# 15< ./ '14< ?/2A.15 ' @/45= >/20 4?672 ;51 / :4 . ./ '14< /129 872 ./42 ?75/0

H 4' .;?@90 6210/< .1 07;2 1D/' 0 :7;9< @/ =21A47;'90 69/1'/< 7 <42/A ./ 610?/5 78 ./ '14< #,3 - - B+ 72 .1 ./ '14< ,1 :// C ?10 @/ A75 45;/< 499 ./ '1?/ 4' '1 4'84/< I

/ .1>/ 57 4A/< 1@7>/ .1 ./ 45 /994=/5A/2' 72 45872?/2' 45 ./ 610 78 ./ 5=.'. " 45=&=7>/25?/5 # :/2/ 78 /5 ;5 2;' :72 .0# 15< ./ 155/O/< 9/ /2 82&7? /A2/ 120 ! /2575 =4>/ ' 8;2 ./2 499;' 21 475 78 .4' 81A ./ /A2/ 120 =4>/ ' ./ 672 214 78 75/ 78 .7'/ 21'A19' * ./2/ :/2/ ?150 78 ./?* :.7 .>/< @0 @/ 21045= @7 .612 4/' :.7? ./0 188/A /< 7 '/2>/ ./ =21>/ ! /2575# 872 91AC 78 @/ /2 /?6970?/5 # A15 18872< 7 :1' / '7?/ '?199 >< 75 .4' 8/997 :

./ 72< 45<'72 ?/5 475/< 45 .4' 9/ /2 :1' 627@1@90 ./ '75 78 ./2 45<'72# '/A75< /129 78 .1 845/ / :1' 1487 75 45<'72 ./2/ :1' 1 !4'A7;5 45<'72 L 72< 7;5 D70 45 2/915<M :.7 @/A1?/ ./ .42<.;'@15< 78 .1297 /# :4<7 : 78 ./ '/A75< 72< $/8824/' * '75 78 ./ 57 7247;' D;<=/ .4' 91<0 ./2'/98 :1' 78?40/< </'A/5 # @/45= ./ 7590 <1;=. /2 78 .4946# '/>/5 . /129 78 /?@27C/# 15< 78 /524/ / </ W;/27;B 14 /# .42< <1;=. /2 78 7;4'/ </ W;/27;1499/# ;A./' ' 78 72 '?7; . 15< ?4' 2/' ' 7 .129/ '

5 ./ 5/ : 612.1?/5 7 :.4A. ! /2575 ?1C/ ' 2/8/2/5A/# 7AA;22/< ./ 81?7;' A75 /' 872 6/1C/2# 45 ./ 70'/ 78 7??75'# @/ : //5 129/0 15< 82 4A.12< 5'97:# :./5 ./ 872?/2 :1' /9/A /< @0 1 ?1D724 0 78 7 -# 1 2/' ;9 /O 2/?/90 ;5'1 4'81A 720 7 ./ .4=' # 1' 4 627>/<# >/20 ;569/1'15 90# .1 ./ 720 45 /2/' :1' ./ ?72/ 44489;/5 419 45 ./ 7;'/

3

. /' C45=' 4'' '/5'4@9/' . 1 ' 07;' 12/' ;5</2' '7?/' 45A75F >/54/5A/' 1 ' 07;2' ' 1045=' . /2/# @; ' <7/'' 57 ' . 45C' 4 ' A15' @/' 7 . /2 : 4'/' 1 ' 62/''/5 # 15<' . 76/'' 07;' 12/' ;5</2' 57' =2/1 ' 45A75>/54/5A/' 45' 4

H' ' 1?# : 4 .' =2/1 ' 2/'6/A # 07;2' 'A/94/5A0&'' 814 . 8;9' 15<' 7@/<4/5 ' '/2>15 #

. /' 129' 78' /9872 # : . 7'/' 51?/' : 499' @/' 87;5<' 82/J;/5 90' ?/5 475/<' 45' 75/' 672 475' 78' . /''/' 61=/'# : 1'' 75/' 78' . /' ?150' ?/5' 78' . 4'' <10' : . 7' =2/1 90' #d27B 84 /<' @0' . /' 199/=/<' 2/1'75' 78' 7 . /2'# 15<' 62784 1@90' 621A 4'/<' 4 ' . 4?''/98 ' 5' $1?/'' &'' 27019' j9/247<' 45' 5=915<# /9872 ' . 1<' =7 ' 1''4=5/<' ' . 4?' . /' /' 1 /' 78' . /' 7A 7=/512415' 42' ;=. ' 1?6@/99# : 72 . ' 1' . 7;'15<' 1' 0/12 ' . /' 8728/4 4;/' 78' . 4'' /' 1 /# . /' 7+05/2' 78' : . 4A . ' A7;9<' 57 ' @/' 627>/<' 7' @/E =;49 0# /OA4 /<' 1' =/5/219' 45<4=51 475) @; ' 4 ' ?1</' 78' /9872 ' 1' ''/2>49/' 779' 78' $1?/'# 15<' . /' '775' 18 /2# : 4 .' . 4'' @27 . /2' . /' 129' 78' /2 . # A75872?/<' 7' . /' 7?4' . ' 2/94=475# 627F 8/''/<' @0' . /' C45=' /9872 ' : 1'' 1'' >4=4915 ' 1'' . /' : 1'' ''/2>49/') 15<' . /' : 1'' . /' 842'' 7' 62767'/# 75' . /' 627'6/A ' 78' . /' 2/>79; 475' 78' 3QQ# . /' ''/4K;2/' 78' 199' ';'6/A /<' 6/2'75'# 15<' . /' 4?624'7545=' 78' . /?' 45' 72 '?7; . ' . /' 62767'19' : 1'' 24<4A;9/<' @0' ;5</2915<# 1'' 4?621AF 4A1@9/

/9872 # 45' 87997 >45=' . /' 872 ;5/'' 78' $1?/'# : 1'' . 1664/'' ' : . /5' /?6970/<' 45' 45 24=;/'' 1=145'' ' 49941?' 4'' ?1' /2E. 1<' 78 /5' 7' <4'1>7 : ' . 4'' 1A '' 15<' . 4'' /64' 9/'# 15<' /9872 ' 82/J;/5 90' ?122/<' . /' </'4=5' . /' . 1<' ;5</2F 1C/5' 7' 1AA7?694'. ' 4''9/ /2# : . 4A . ' 4'' 2/8/22/<' 7' 45' . /' 87997 : 45=' /O 21A ' 78' 1' </'61 A . ' 827?' /A2/ 120' ! /2575' 7' 72<' 15A./' /2# . 1'' @//5' 192/1<0' /O69145/<') @; ' . /' </'61 A . ' '. 7 : '' 78' : . 1 ' 4?672 15A/' . /' <745='' 78' . 4'' ?/<<. 5=' 1=/5 ' : /2/' 1AA7;5 /<' @0' . /' ?454' /2'' 1 ' . /' A7;2 ' 78' ' $1?/'&'

9

215A/ : / ' . 7 ; 9< @/ : 49945= 7 . 1>/ . / '1 ? / 7645475 78 . 4 ?) 499 . /5 : / A7 ; 9< 57 @ ; 2/ ? / ? @/2 : . 1 15 45' 2; ? /5 . / . 1< @ / /5 45 627 ? 7 45= . / 45 /5</< 1' '1' '451 475 15< 45>1'475# 15< ? ; ' @/ A75A/25/< . 1 . / 4" @245=45= . 4 ? '/98 45 7 6910 1=1 ? ; 675 . / '1 ? / @7 7 ?) 15<# @0 . 4" : 10 78 : 4 45=# 75/ ? ; ' ' ; '6/A . 1 . / 4" 1<? 4 /< 45 7 A75>/2'1 475" : 4 . . / 2/5A . ?454' /2' ' ' / / ? /< >/20 /O 2172<45120 . 1 . / ' . 7 ; 9< 62/ ' " . / 4 ? 627>45= . 4" 76672 ; 54 0 57 : . / A74 ; & 78 215A/ . 1< 2/ ' /5 ? /5 ; 675 . / <4'A7>/20 78 '7 ? / 2/1A . /20 . /0 . 7 ; = . . 4" 1D/ ' 0 = ; 49 0 78 I

AA1'4751990 . /2/ A1 ? / 7 . / 5=94' . ? @1' '1<72 45 124'# 'A216" 78 45 @2/ ' 45= 45 /994=/5A/ 827 ? 872/4=5 A7 ; 2 ' 6121=216 . 78 ? 72/ . 15 ; ' ; 19 45 /2/ ' 7AA ; 2" 45 1 9/ /2 1<<2/ ' '/< 827 ? 7AC . 79 ?# /A/ ? @/2 # , # 827 ? 2 7@45'75# . / 24 4' . 5>70 45 : /</5 2/8/2" 7 : . 1 7AA ; 22/<D ; ' 62/>47 ; " 7 941 : 75</2F 8 ; 9 @1 9/ 78 12>1# 87 ; = . 75 7>/ ? @/2 # 45 : . 4A . . 129/ " % # . /5 7590 45 . 4" 545/ / /5 . 0/12# 1 1AC/< 827 ? '/>/5 0 7 /4=. 0 . 7 ; '15< ; ' '415" @/ . 45< ' 275= /5 2/5A . ? /5 '# : 4 . 1@7 ; 1 87 ; 2 . 78 . 1 872A/ . / 1 1AC : 1" ? 1</ 45 1 '57 : ' 72 ?# 15< . / 2/ ' ; 9 : 1" . / '91 ; = . /2 78 . 198 . / ; ' '415 12 ? 0# 15< . / ' ; 22/5F </2 78 ' ; A . 78 . / 2/ ? 145</2 1" : /2/ 57 1@9/ 7 /88/A . /42 /'A16/ >4A 720 '7 A7 ? 69/ /# 78 1 ' ? 199 872A/ 7>/2 1 =2/1 /2# . 1< 212/90 @ / /5 ' / /5 . / A75J ; /245= 07 ; 5= C45=&@72/ . 4" . 757 ; 2" ? 7</ ' 90# 15< . / A7 ? ? /5 78 K12 / /2 ; 675 . / A191 ? 4 0 : 1" . 1 . / : /</ '# @0 44=. 45= 45 . 1 81' . 475# : 7 ; 9< 1 91' ' /1A . . 4" ; ' '415" 7 >15J ; 4' . . / ? (15< ; 9 7 : 1# 45 4 ? /# A7 ? 6/5'1 /< 45 '7 ? / </=2/ /# 872 12>1

; A . 1" : / . 1>/ . /12< 78 . / @/1245= 78 . 129/ " <; 245= . / 84=. # : 72 . 0 78 1<45821 475# . /2/ 4" '7 ? / . 45= 57 '9/ ' " : 72 . 0 78 6214 '/# A755/A /< : 4 . : . 1 77C 691A/ @/872/ . 1 '15=; 45120 84=. @/=; 5 . / 54=. @/872/ . / : 75<D7 ; " >4A 720 78 =45A7 ; 2 # . / 5=94' . : /2/ 1

6210/2'# 15< ./42 @21>/ @; 77 A7584</5 /5/?0# 1
:5/ 15< <4A/ 5 ./ '57:# @/872/ 12>1# .129/'
@72/ .4?'/98# 57 .C/ ./ ?1<?15 78 ./ 72 .# @;
94C/ 1 2;/ .24' 415 C;4=) 15< :./5 .4' 12?0 27'/#
2/82/'./< 15< '2/5= ./5/<# ./0 ;25/< 827? ./
'1A21?/5 '#78 6/1A/# 15<'?7 / ./ ?19/C4 /'# .46 15<
.4=.N

; & ,4 $%%

.1 ./ <10 @/872/ ./ 1A 475 .4' 9+1D/' 0
.1< 2/A7??/5</<15< =4>/5 4?/ 7 199 .4' 12?0 7
62/6148/ ./?'/9>/' 15< 2/A/4>/ ./ '1A21?/5 # .4?'/98
/0.72 45= ./? 7 2/6/5 15A/# 16< /'6/A4199O .1 872
./ 97>/ 78 7< 15< .4? ./0 :7;9< 872=4>/ C75/
157 ./2# 15<@/ 45 6/28/A A.124 0 8 /2 ./ '1A21?/5
.4' 1D/' 0# 1 ./ ./1< 78 .4' 1550# 2/62/'/5 /< 7
./? ./ @12@127;' A2;/9 0 78 ./ /5/?0 @/872/ ./?#
15< ./ 5/A/''4 0 78 A75J;/245= 72 <045=) ./ D;' 4A/
78 .4' 7>21 A1;'/# 15< ./2/872/ ./ 842? A7584</5A/ ./
.1< .1 7< :7;9< =4>/ 1 @9/''45= 7 .4' /5</1>7;2')
0/ 48 150 78 ./? :/2/ ;5:49945= 7 >/5 ;2/ :4 . .4?#
./0 '.7;9< .1>/ 82//9/1>/ 7 2/ ?/) 572 '.7;9< ./0
./2/@0 45A;2 .4' <4'69/1'?/ 675 .4' ./ :.79/
12?0 /062/''/< ./42 ;5154?7;' 2/'79; 475 7 84>/ 15<
<4/ :4 . .4?# 15< ./42 </';&/ 7 @/ 9/< 1=145' ./
/5/?0 I

7/' 57 ./ 1@7>/ 45<4A1 /19?7' 1 691=4124'?827?
./ '/5 4?/5 ' 7 :.4A. ./ 67/ =4>/' /062/''475# 45
./ 6/2'75 78 /520 ! S *

+=,-C-54);9 ;+ ,?+9 5-,)*01 +B-5>EB 9 7 B5?+
B*+ B, @B;4B B*+B 05 ?+5 9 *4B +5 +B;? 8;EB+
,+ B;9 1,C*-+ B;? C*??C5-+ ?B*)) =, 9 *1,
01 4-5@0? 85- 450657 C>+ ;0+5 B;? C>-?,
, @5>)1 05+ 1;, ;O +B*+ 9 *0.? 45 9 C*07
B*+ 8,*-? B;? 8,))5@?B;C +5 1;, @;+B >?

72/ =7''46# :4 . ?1 /2' 78 =21>/ 4?672 # 872?'
./ ' 169/ 78 ./ 5/O 9/ /2 827? .7?/# B+4 /5 @0

2 12< . /72< 24>0 /19# : .7 4'' '67C/5 78 1'' 2/A/5 90 </A/1'/<# :1'' ./ 842' 72< 75'<19/ 4'' ';AA/''72 :1'' ./842' 129 78 15C/2>499/#@/ /2C57 :5 1'' 72</ 2/0# ./ .44&<E 1275 2/0 78 /2C/ * ./ 27;=. :77/2 :.7 872A4@90 A1224/< 788 1<0 /524/ 1 /2C/9/0# 15< .1< 7 ' 15< 2419 872 ./ 7;21=/ 49941?2/' 72/< .4?7 .4'' /'1/# 15< /9/>1 /< .4?7 45 ./6//21=/ 72< 15C/2>499/ :1'' 15 1; .72 77 4'' '/A2/ .4' 720 78 ./ 0/ 7;'/ 97 :1'' 6;@94'./< 45 ,-# 45 ./ 4?/ 78 .4'' =2/1 =215<'75# .27;=. .4'' <1;=. /2 15< '79/ ./42/'' * .129/'' /55/# 129 78 15C/2>499/

;:/A7?/;675 1'' 499 ?72/ 57 1@9/?15 45 ./6/2'75 78 ./842' 14C9 7590 3 78 15/91=.# 78 ./24'. //21=/# 1 ?15 :.7# .1>45=2;45/< .4?''/98@0 .4'' 61''475 872 @;49<45=15< .4'' /O 21>1=15A/45 =12</545=# D>1'' 57 :'166745 /< 7 1 5/ :90BA2/1 /< 67' * ';6/245F /5</5 78 ./27019 /<484A/'' 15< 69/1';2/B=27;5<'# 15< @4<</5 7 20 .4'' 91>4'.. 15< 75 1?6 75 7;2 191A/ 15< </?/'5/ ./129 :1'' =2/1 =215<'75 78 $75/'# 2A.@4'.76 78 ;@.5 45 ./2/4=5 78 .129/'' # 15< .1< @//5 627?7 /< 827?! 4'A7;5 @0 .129/'' # 45 3, . /C45=97>/< 1 07;5=?15 78 =2/1 612 '' 15< =2/1 >4A/'# :.7'/A75>/2'1 475 1@7;5</< :4 . :4 # 15< :.7'/ </O /24 0 21 ./2 .15a16 4 ;</ 872 @;'45/'' :1'' 57 7247;'

.4'' 16 4 ;</ :1'# .7 :/>/2# 78 1 612 4A;912 J;194 0) 1 J;1. 0 /O 2/?/90 =21 4804 5=7 .129/'' 72< 15/91=.# :.7 ./5 .1< ./84515A/'' 78 2/915< 45 .4'' .15<'# :1'' 19:10'' 2/1<0 7 ';6690 .4'E 2701 ?1' /2 * 18 /2 .4?''/98 * :4 .?75/0 ;78 ./24'.2/>/5;/ ./;5</2 77C 7 ';6690 .129/'' :4 .8;5<'' 7 </8210 ./ /O6/5'/'' 7 @/45A;22/< 45 2/61;45=15< ?12245= 45<'72 1'9/ 5 7 ./E4'.2/1';20# .129/'&'' 2/5A.?4'2/''# ./ ;A./'' 78 72 '?7;.# :1'' 19'7 6/2?4 /< 7 <46 ./2 .15<' 7 '/2>/ ';A.6/769/1'' ./'/# 24+.7884A419'' :/2/ 9/8 ;5614<# 15< ./24'.

1AA7;5 '' =7 ' 45 7 =2/1 ' A758;'475 ' 94/ C45= ;2=/<
72< ''/O L ./ 842' ' 78 ./ 16Y4'' : .7 @72/ .1 ' 4 9/# '
.Y ;5872 ;51 / 972< : .7 A; ' .4'' .271 ' 45 ./ 7 >/2M#
: .7 : 1'' 972<B94/; /515 ' 78 2/915<# 7 </A912/ 15/91=.&''
1AA7;5 '' <;90 61''/< ./ =1 15 ''/O 2/694/< .1 '
./ :7;9<# 7 69/1'/ .4'' 1D/' 0# </A912/ 15/91=.' 7 @/'
<;90 /OA;'/< 827?' 62/''/5 45= ./?# @; ' .1 ' ./ :7;9<
57 ' <7 ?72/N

.4'' &'.' 84515A4/2 @/A1?/ 610?1' /2 78 ./ ¢872A/''
;5</2 $1?/'' # 15< :1'' A75' 15 90 45 122/14&' W;/'F
475/< 2/6/1 /<90 45 ./ 5=94'.' 7;'/ 78 7??75'#
./ 81 # <12C# ?C9<9/B1=/< ?15 4?4/< />/20 6745 ' 1'4</
@0 .4'' >4 15< 81A/ 47;'5/''Y 15<# :./5 ./ >1 1AA;'/<#
'775 18 /2 ./ </1 .' 78 49.1?# +.7?' ./ .1< 19'7 ''/2>/<
1'' 610?1' /2 7 ./ 12?0# 78 .1>45= </821;</< ./
=7>/25?/5 ' 78 1' ?49947578 ?75/0# 4 ' >1 4?6; /< 7
.4?' 1'' 1 ?/24 ' @0 .4'' 824/5<'# .1 ' ./ >1 45 </81;9 '
<9490 1 619 20 .;5<2/< .7;'15< 67;5<'' 72 '7N /':1'#
.7 >/>/2# /O6/99/< ./ .7;'/Y 15< ./ 87;5< A75'791 475
45 94/ /5D70?/5 ' 78 .4'' ?15'475 445< =12</5'' 75 ./
24>/2B'4</ 1 ' ./9'/1# C57:5 7 1'91 /2 15< 1 2/>/9.5=
=/5/21 475 1'' H 15/91=. I .4'' 57@9/?15&'' 7590 <1;=.F
/2 ?1224/< 72< 7545='@0# 1 @21>/# /AA/5 24A# @9;5F
</245= ?15# :.7?' 76/.1'' 4??72 1.'/< 45 .4'' 1 42/'#
45 ./ '4?69/ /O62/''475# H 7545='@0 .1215=;/'N I' 72
.4'' ?12241=/# 72< 15/91=.' <4'4594/24 /< .4'' <1;=. /2#
15< 9/8 ' 1 ' .4'' 6276/2 0 7 2//44 >4A.' 7'64 19 ' ./
.7;'/ ./ .1< </'4=5/< 15< ./ =12</5'' ./ .1< 914< 7; #
/1' '78 H . /9'/1 799/=/# I @/A1?/ 1 691A/ 78 6;@.A'2/'72 '
72< 15/91=.' <4/< 45 , ' ./ <4'45./24 45= 78 944''
<1;=. /2 :44'' 15 ;5D;' 4841@9/ 1A Y ./ >72'' .1 ' A7;9<
@/ '14< 1=145'' 7545='@0 :1'' .1 ' ./ :1'' 1 ./1>0#
';64< 24415Y >.49/ 15/91=.' :1''2/?12C1@90 J;4AC 15<
@249 15 ' 5 /1290 948/# ./2/ .1< @//5 1 <1'.' 78 /AF
A/5 24A4 0 1@7; ' .4?# 77 ' /' .1< @//5 45 97>/ :4 .'
./ ?7'' @/1; 48;9# 91KO# 915=;4'.45=# 188/A /<# 15< 422/F
'4' 4@9/ 78 ./ '7BA199/< ?14<'' 78 .757;2 45 + / ' A7;2 ' 78

.129/'' 4' 2/''' $15/' 4<<9/ 75# .7 : />/2# .1< 157 ./2 97>/2# 196.' 75 1=;# 18 /2 : 12<''' ;C/' 78 $R 75 1=;# 7 =/ ' 24<' 78 : .7?# 2 ' $75/' * : .7 : 1''' 57 ' 0/ ' 72<' 15/91=.# 8;2 ./2/<' ./' ';4 ' 78 1' .42<' 15< ?72/' <15=/27;''' 97>/2 * ./' ./>194/2 </' 21?? 75 ' .4?'/98 ' 72 1' ?15 78 : 4 # .4''' : 1''' 1' <15=/27;'# 1''' 4 ' 627>/<' 15' ;5';AA/''8;9# 627A/''

./' 21</B91 : ''' 2/8/22/<' 7 45' ./' 9/ /2' 827?' 2' 12<' : 499 /OA4 /#&6/2.16'# '7?/' ';2624'/ ' ./' @2/1CB;6' 78 ./' A7 4'.' 21<45=' /O6/<4 475' 7 124/5' : 1''' 2/F A/4>/<' 45' 5=915<' : 4 .' .1 ' 2/'4=51 475' : 4 .' : .4A.' 1' ?15 4''' '14<' 7 977C ;675' ./' A191?4 4/''' : .4A.' @/8199 .4''' 824/5<'' ''' /' 1@.'.?/5 ' .1<' '72/90 <4' ;2@/<' ./' C45=&''' 6/1A/ ' ' .1<' 8/<' 7 .4''' @/45=' 6/ 4 475/<' 7;' 78 1 ' 2/1'75# 15<' 1' 91 : ' 872@4<<45=' ./''/' 1''1;9 ''' 75' .4?# 827?' A7 915<# : 1''' /5 42/90 <4'2/=12</<' ./' 4?621AF 4A1@494 0 78 A7??/2A41990 7667'45=' 75/' 612 ' 78 ./' C45=F <7?' 1=145'' ' ./' 7 ./2# 9/<' ./' C45=' 7 </'42/' 15' /51# : .4A.' : 1''' 975=' 1BA7?45= * 75/' 91 : ' 872 199 21</2'

' ' ' ' `

' 'ℕ A>)7' ## $%%

' * ./' 94 9/ 5/ : ''' : /' .1>/' ./2/' 4''' ./' 2/1'75' ' <7 57 ' 27;@9/' 07?& 72<'.46' 78 /5/2 ' 7;2 72<'.46' .1''' 1./1<0' ./12<' 78 ./' </1 .' 78 ?0 72< 24>0 /19# 15<' : /' 12/' 57 : ' /O6/A ?=' .7 : ' ./' 7884A/' : 499 @/' <4'67'/<' 78 ' ./' C45=' .1''' </A912/<' .1 ' ./' : 4 ' A7??4 ' ./' A;' 7<0 78 ./' 24>0 /19 >/20 '775' 7 1' '45=9/' 6/2'75')' : .7 4''' ./' 6/2'75' </'4=5/<' ' A1557 ' 0/ ' /99 07;2 72<'.46 ' ./' A7 ''' 12/' 57 : ' A75>45A/<' .1 ' ./' 5/ : ''' 1@7;' 124/5' 4''' 2;/# 872 '7?/' 6/2'75''' 12/' 1224>/<' 45' A7 915<' : .7 : /2/' 1 ' ./' '4=545=' 78 ./' A164F ;91 475' : 4 .' ./' 615412<'# 45' 6;2';15A/' 78 : .4A.' ./0 199 /?@12C/<' 15<' <42/A /<' ./42 A7;2'/' 7 '7?/' 78 ./42 5=.'.' 6915 1 475'# ./42 '.46''' 57 ' @/45=' 45' 1' A75<4 475' 7 =7 <42/A 90 .7?/ ' ./' <4'A75 /5 /<' 612 0 45' A7 F 915<# '//45=' ./42 ?/1';2/''' @27C/' 45' 2/91 475' 7 124/5#

12/ ' / 45= ;6 1 5/ : </<;A/ 7 <4' 45=;4' . / ? '/9>/ @0# 15< 87 ? /5 15 154 ? 7 '4 0 @0 /5 /245= 45 7 15 1=2/ /F ? /5 : . /2/@0 . /0 627 ? 4' /# 75 . /42 . 757 ;2 15< A75F 'A4/5A/# 7 : /12 497 872/4=5 ? 15 ;81A ;2/ '# 572 <245C 150 872/4=5 : 45/# : . 4A . / 24>0 7 ;5A49# 977C45= ;675 1 78 <15=/2@ ; A75' /J ;/5A/ '# 15< 4 A7 ? 45= <42/A 90 1=145' 15 A 78 12941 ? /5 : . 4A . 872@4<< 45= 199 6/2' 75 7 '4=5 . / 1' ' 7A41 475 @ ; # 57 : 4 . ' 15<45= . 4' # ' />/219 78 . / 57@4 . 0 15< =/5 20 . 1< ' ;@' A24@/< . / '1 ? /# 15< . /0 >/2/ . 15<45= 4 1@7 ; 872 ? 72/ . 15<' ' ' ;667' / 07 ;2 72<' . 46 . 1 . /12< . 1 ? 0 72< 15/91=. 8/ ? 1</ ' ;6/245 /5</5 78 . / C45=& @ ;<<45= 15< =12</5'# . 7 ;=. < 7 57 845< . / . 1 0/ 150 '19120 ' / 9/< 872 . 4 5/ : 7884A/ . 4 62/ ' /5 @ ; '45/ ' : 499 @/ 7 8454' . 1 ? 6 75 7 ;2

H 1 ? # : 4 . =2/1 2/ ' 6/A # ? 0 72<#

H 7 ;2 72<' . 46& ? 7 ' 7@/<4/5 #

) #

5 /O 21A 827 ? 1 9/ /2 : 24 /5 @0 ! /2575 2/8/2 7 1 ' /247 ; ? 1 /2 A755/A /< 04 . / ' /4K ;2/ 78 2/5A . 6421 / 1 ' /1# . /42 2419# 15< A75</ ? 51 475 <7/ 57 166/12# . 7 : />/2# . 1 72< 15A . / ' /2 : 1 ? ; A . 27 ;@9/< @0 . / 2/5A . =7>/25 ? /5 75 . / ' ;@D/A

0; ;; 4+' # $%%

H ; 2 < ? 4219 0 / ' '475 872 . / 2419 78 . / 2/5A . 6 ? 1 / 4 57 : A75A9 ;</< . /0 . 1>/ @//5 24/< @0 D ;24/ ' ? 7 ' 78 2/5A . 15< 5=94' . # . 7 ;=. 7 ;2 =2/1 9+5>0/2 '14< . /0 A7 ;9< 57 62/ /5< 7 4 45 1AA ;F '1 475 78 . 4 51 ;2/) @ ; /> /20 . 45= . 1 @//5 A1224/< : 4 . =2/1 A15<7 ;2 15< 4 ? 612 4194 0# '7 . 1 : . 1 />/2 A7 ;9< ? 1C/ 872 . / 1AJ ;4 19 78 150 78 . / ? > 1 914< . 79< 78 45 . /42 81>7 ;2# @0 >.4A . ? /15 78 ? /5 . 1

$ ‘ ‘ -

G:/2/ 1C/5‘ 84=. 45=‘ 45‘ 75/‘ ‘.46# 18 /2‘ ?150‘ 6421A4/‘‘ A7??4 /<‘ @0‘ ./?# Q‘ :/2/‘ 1AJ;4 /<# 15<‘ - ‘ A75F </?5/< I

‘ ‘ ‘ ‘ A

& ‘ ,C+

‘ ‘ ‘ ‘ <7‘ 57 ‘ <7;@ ‘ @; ‘ 07;‘ .1>/‘ ./12<‘ .1 ./‘ 245A/‘‘‘ .1‘‘ ‘/5 ‘ ?/‘ 9/ /2‘‘ 872‘ .4‘‘ A7;2 ‘ 7‘ 57 480‘ ./#</1 .‘ 78‘ ./‘ ;C/‘ 78‘ 97;A/‘ /2 ‘ 59/‘‘‘ ‘.1>/‘ 19‘7‘ 72</2‘‘ 848?‘ ./‘ C45=‘ ‘A1557 ‘ 62/‘/5 ‘ ./?# 72‘ :499‘ ./0‘ @/‘ 2/A/4>/<‘ 1‘‘ ‘.1>/‘ 45872?/<‘ ?0‘/98 ‘ ‘‘.7;9<‘ .45C‘ ./0‘ 7;=. ‘ 7‘ .1>/‘ C57:5‘ ./‘ C45=&‘‘ 69/1‘;2/# ./2/‘ 4‘‘ ‘7‘ ?;A.‘ 4?/‘ 97‘ ‘ 5‘ ?0‘ 7645475# 4 ‘ 4‘‘ ?;A.‘ @/ /2‘ 7‘ 9/ ‘ 4 ‘ 1975/#7872‘ .7;=.‘ ./0‘‘.7;9<‘ =7‘ 45 7‘ ?@;2145=‘ ./2/# 4 ‘ :7;9<‘ @/‘ 872‘ ‘7‘ 94 9/‘ 4?/‘ .1 ‘ 4 ‘ ?4=. ‘ 57 ‘ @/‘ :/99‘ 1C/5 I

./5‘ ./‘ 9/ /2# <1 /<‘ 124‘# /A‘ # 827?‘ ./‘ 129‘ 78‘ 15A./‘ /2‘ 7‘ 944‘‘ @249.15 ‘ A7;‘45# .129/‘‘ 75 1=;# :1‘‘</‘61 A./<# ./‘57@9/?15‘ 7‘ :.7?‘4 ‘ >1‘‘1<<2/‘‘/<‘ .1<‘ :725‘ .4‘‘ 4 9/‘ 78‘ 1275‘ @; ‘ 87;2‘ <10‘ ‘ ./‘ 4 9/‘ 78‘ !4‘A7;5 # 129# 15<‘ 12J;4‘‘ 78‘ 19481O‘ .1<‘@//5‘/5D70/<‘ @0‘ ./‘ :7‘ 1>499/‘# 81 ./2‘ 15<‘ ‘75# 827?‘ 33Q# :./5‘ ./‘ >4‘A7;5 0‘ :1‘‘ A758/22/<# 7‘ , # :./5‘ ./‘ 4 9/‘‘ @/A1?/‘ /O 45A

5‘ /A/?@/2‘ 78‘ ./‘ 91 /2‘ 0/12# .129/‘‘ 75 1=;# =215<‘75‘ 78‘ ./‘ 842‘ ‘ 129‘ 78‘ 15A./‘ /2‘ L@/45=‘ ./‘ 87;2 .‘ ‘75‘ 78‘ /72=/# :.7‘ :1‘‘ ./‘ 848 .‘ ‘75‘ 78‘ .1 ‘ /129M# :1‘‘A2/1 /<‘ 1275‘ 19481O‘ 7;2 //5‘0/12‘‘91 /2‘ ./‘ :1‘‘A2/1 /<‘ !4‘A7;5 ‘ ;5@;20‘ 15<‘ 129‘ 78‘ 1.81O# 4 9/‘‘ 45‘ :.4A.‘ ./‘ :1‘‘ ‘;AA//</<‘ @0‘ .4‘‘ 5/6./:‘ 15<‘ =2/1‘5/6./ !#45‘ :.4A.‘91‘‘ ./‘ .757;2‘‘@/A1?/‘/O 45A # 45‘ , ,

5<‘ ./2/‘@/872/‘=4>45=‘ 72<‘ 15A./‘ /2&‘‘ < /2‘ 7‘ 944‘‘ A7;‘45‘ 19481O# :/‘ :499‘ 45‘/2 ‘ 1‘ 9/ /2‘ :.4A.‘ ‘;<F </590‘ ;25‘‘;6‘827?‘ ./‘81 ./2‘ 78‘ 19481O * ./‘ /72=/‘ 1@7>/‘51?/<‘ ‘4‘‘ 78‘45 /2/‘ ‘827?‘4 ‘‘A755/A475‘:4 .‘ ?12241=/‘ ‘ 1 4‘ 4A‘‘ 15<‘<7?/‘ 4A‘ /A757?0‘ ./2/‘4‘# 1‘

CHARLES MONTAGU, EARL OF HALIFAX.

FROM THE ORIGINAL AT KIMBOLTON.

@/872/ '14<# 57 <1 / 7 4 # @ ; 1 @/ : 24 /2& '4' /2 4 '67C/5 78 45 94/ 67' 'A246 @0 ./2 ?1224/< @1275419 4 9/ 78 H .15<7'#I ./ 6/247< : 1 627@1@90 1@7 ; ./ ?4<<9/ 78 ./ '/>/5 //5 .A/5 ;20 .4 <7A; ?/5 # 94C/ 75/ 45 157 ./2 61=/# >499 '.7 : ./ 51 ;2/ 78 ./ <4884F A;9 4/ : .4A.# 45 .7'/ <10'# 4?6/</< ./ A7?45= 7F =/ ./2 78 07;5= ./12 '

' ' ' ' ' '

' ' . ; ? @90 .15C 07;'872 ./ @77C : 944A.' .1>/ 57 : 2/A/4>/< 5< .1>/ 57 : 2/1 /< .4 @;'45/' ' 872 ?0 54/A/ 7 ./ ; ?7' # : ./2/ 1 ./ @7 7?' '845< . 9/ 78 .757;2 72 69/5 0 45 /5</<# @ ; 19 7=/ ./2 /2?' 78 1<>15 1=/ 7 @/ =145/< 827?' 07;' 15< ?/# ./2/ @/45= 57 .45= 04/9</< 75 ./42 '4</# 75 ./ 6745 ' 78 ?145 /515A/ 872 ./ 62/' /5 # : .4A.' : 4 ' @/ ./ A7?872 ' 78 ./?' .>/'# 15< 45</!/< ./ ?/24 ' 78 ./2 672 475 .1 ' A1?/' 150 ' /J;194 0 72 A722/'675</5A/ 7 ./ 872 ;5/ '. / @245=' ./?) ?0 7645475 78 : .4A.' ' .1>/ 6914590 ' / '<7 : 5 ;5</2 7A 72 4'/?15&' 897;24'.) 15< 45</!/<# ?0 72<# /01?4545= 4 # ./0 =4>/ ./42 '75 @; ' ']# @/'4</' ./ 45 /2/' ' 78 .4' : 48/&' 672 475# 15< ./ 2/' ' 78 ./ /' 1 / ./0 /5D70 <;245= ./42 94>/ ')@; .4' 1<>15A/?/5 ' 72 ./ A75'4</21 475 78 .4' ?12241=/ ?7>/' ./?' 57 .45=@; ' 7 '/ 9/ ./ /' 1 /# : ./5 ./0 A15 57 975=/2 /5D70 4 ' 5< ' 9476/ ./0 1997 : ' .4?' P ' 1 0/12 57 : # 7 ./2 : 4'/ ?0 07;5= =19915 ' 4' 45 1 '1< A75<4 475 ' .1>/ 788/2/< ./?' 7 1C/ P# 1 D+/12# 48 ./0 : 4 ' =4>/ ./?' <4/ ' : .49/ ./0 2/'4</ 7=/ ./2# 15< 9/ ' ./?' @/ 8;254'./<# 48 ./0 612 ' 827?' ./?# 7 610 872 4 ' 45 157 ./2 691A/ ' ; ' 45 1 : 72<# 94/0 2/8; '/ 1 ' .45=' /OA/6 45= P # 1' ' .1>/ /062/' '/<) ./0 : 499 57 ' =4>/ ./?' '4O6/5A/ 78 ./ 672 475) 572 1<< 7 ./42 ?145 /515A/ 48 79< 42 .7?1' 4'/?15 '.7;9< .166/5 7 <4/# : ./5 ./ 81 ./2& 872 ;5/ : 7;9< @/ '7 /5912=/< 1' .1 ' ./0 : 7;9< @/ 45 67' '/' '475 78 1

H 72 ?0 7 : 5 612 # ' A758/' ' ' 1?' '7 ;5'1 4'84/<# .1

</'42/ 7 @/ /OA;'/< 827?627A//<45= 499 2/A/4>/ 07;2 72<'.46&'7645475 78 ./'/A75<4 475') 15< .45C 4 45>145 7 =4>/ ?0'/98 ./ 27;@9/72 /06/5'/78 '//45= :24 45='78 15/'1 /.1 @/45= 5/>/2 '7 A9/12 :/ 12/ 57 7 .1>/ 150 '.12/78 5< @/94/>/#45 1 2/1 4/' 78 .4' 51 ?E/# ./ ?1 /2 4' 8448' 1=2//< 75# @/872/ ./ ?155/2 78 '/ 9/?/5) :.4A.?10 77 812 1<?4 1 A75F A/''475# ?72/ /'6/A4199O :./5 ./ /2?' 12/ 1 .1 <4' 15A/ 15< <4'6276725 475) 872 ./A1'/4' 19 /2/< '45A/ :14 /< 75 07;# ./ <488/2/5A/ @/45= 7590 ./5 :./ ./2 , 8 72 Q +1 0/12) 15< 57 .45= 9/'' 45 <4'A7;2'/ 7A 72 4'/?15 </'42/'E 07;2 72<'.46&' 15' :/2 15< ?45/# 45 :24 45=# 7 .4' 616/2'# :.4A.48 07;69/1'/ 7 '/5< ?/ ;6# 07;:499 7@94=/ 07;2 72<'.46&' .;?@9/ '/2>15 #

H 0 '4' /2 9415<7' 94/' 45 1 :/1C A75<4 475# @/45= @27;=. 7 @/< @/872/ ./2 4?/# 78 1 <1;=. /2# :.4A.4' </1<# 15< ./2'/98 8; 78 ./ '?1 B67O /1 @/= 07;2 72<'.46&' 6210/2'# 15< 62/'/5 7;2.;?@9/ '/2>4A/ 7 07;15< ?0 91<0 0 1<0 2@0 ./' >/20 4 # 15< </'42/' ?/ 7 :24 /7 07;# :./ ./2?0 1<0 A15 9/5< ./2 1 ?99A./1''# 15< './ :499 '/5< 1 ?15 1& 6;267'/ I

./ 1<0 .15<7' 51?/< 45 ./ 1@7>/67' 'A246 # ./ '4' /2 78 ./ :24 /2# :1' ./ :48/ 78 ./ '4O .' 1275 .15<7' 78 ;</9/0 ./ 848 .' @1275# 81 ./2 78 ./ 91 /2# :1' ./ 81?7;' H "45= 78 7 ':79<#I 1 4 9/ 676;91290 1:12</< 7 .4?' 75 1AA7;5 78 ./ ?1=5484F A/5A/ 15< ?4?@/2 78 ./ 2/ 45;/ :4 .' :.4A.' ./ :1' :75 7 =7 ;6 7 A7;2 4' :48/ :1' ./ <1;=. /2 78 /2<4515<7# 848 .' 129 /2@0 78 ./ .7;'/ 78 159/0# A75A/2545= ./ ?155/2 78 :.7'/ </1 .' ./ 87997:45= /O 21A 827?' ./ 129/415 18872<' </ 149' .4=.90 c499;' 21 4>/ 78 ./ 6/247<' ./ /129 :1' ';667'/< 7 .1>/@//5@/:4 A./< 7 </1 .# 15< H 5 ./ .' 6249#

5/>/2 @/ '1 4'84/<# 9/ ? /' 1A 1" B:<99 72 A15 8 07;2 72<'.46 .45C" 4 A75>/54/5 # C57:' 07;' c><99 57 2/8;'/ ?/ 07;2 9/ /2 7 ./ 54>/2'4 0 0 1<0 15<:4A.' 4"=75/ 7 945A.45=@27C/# 94/12# 45 72</2 7 '/ ;6 .129/" 709/ 1=145' C 72 9/0 75 1=;&" 45 /2/' #18 ;5 45=<75 !4>/ 91 ;/22/# >.7'7/>/2 4" A.7'/5 72 A1' 7;# 72 75:.1 '4</ '7/>/2 .45=" 4?5 1? ?7' 2;90 07;2 OA/99/5AO&" ?7' 7@/<4/5 # .;?@9/ '/2>15 #

AB1 !

H .7;=.' 1? 57 975=/2 45 1 /A2/ 120&" 7884A/# >/54'75 :7;9< 57 674'75 1 A7??4''475/2# 15< <7/" 12/ 57:' 45 '/1'75# :.4A.' ?10 @/ ;'/8;9 7 45872?E 2 7791' 75 78# :./5 5/O 07;2 72<'.46 :4E4 /" 7.4? I

67/ 9779<5=' 18 /2 ';A.' ?1 /2419 .45=" 1" >/54'75# 4" '4?690# 45 2472&" A1'/# 1 67/ 977C45=' 18 /2 .1 : .4A.' ./ 97>/<# 1 9/1'# 1" :/99 1" ./ 97>/< + 7/ 20) 15< <7;@ 9/'" 1 "4?'@79 75 <7/ ';88/2/< 872 94/ =21 484A1 475 78 2472&" 166/ 4 / 8 77 ?;A.' =21 484A1 475# 75 ./ 7 94/2 .15<# 1 6//2 :1" ';667'/< 7 @/ <045=' 5 1 9/ /2 827?' !/2575 7 72< 15A./' /2# <1 /< A 7@/2 , # 4 '4" '14<#' H 0 72< 21<872< A1?/ 7 7:5 75 1;2<10 91') ./ 4" '7?/.45=' @/ /2# @;' ./ A15&' 0/' 2/A7>/2 .4" ' 7?1/94# :.4A.' 4" 57 =77< 'D156 7?' 45 75/ 78 .4" 1+/ I ;' 215C /:672 # </'A/5</< 827?' ./ 4'.76 78 ./' /2 78 .1' 51?/# A75 24>/< 7 94>/ 75 499 , Q

/15:.49/# 2/8/2245=' 7 15 H ' &- 45 215A/# !/2575 1<<'(*

H ' ' ' A15&' 4?1=45/ >.1' ./0 62767'/ 7 ./?'/9>/" 1 ' /2?145" @0 2/672 45=' ./ 1AA7;5 " 78 "45=' .129/" 15< ./ ;A./'" 78 72C&" <&<5=' 1 $4794A' ' C57:' 57 ' :.1 ;'/ 4 ?10 @/ 78 1@271<# @;' 4 ' :45 <7 ./?' 57 =77< ./2/# 15<# ./2/872/# :./5 .7'/ 616/2" 12/ 6;@94A# .76/ 07;2 OA/99/5AO >4 '/5< 7>/2 1 =77< 612A/9 78 ./?' @0 :7 72 .2//

! % ‘ c‘ % Z

';AA//<45=‘ 67' ')‘ 15<‘ 48‘ 07;2‘ '/A2/ 120‘ :7;9<# <42/A‘ '7?/‘ 7‘ 150‘ 78‘ 914"‘ 1AJ;145 15A/'‘ .1‘ 12/‘ 7;‘ 78‘ ./‘ 7884A/‘ 4‘ ?10‘ 57‘ @/‘ 1?4''‘ 7?/‘ 6/769/‘ 5//<‘ BA75F >45A45=# 72‘ .1>45=‘ ./42‘ ?/?724/'‘ 2/.B/'./<# 1'‘ 7‘ ./ 2/94=475‘ .129/'‘ <4/<‘ 78 &

;‘ :/‘ '.199‘ 9/125‘ ?72/‘ @7 .‘ 78‘ ‘ /2?145'‘ 15<‘ ‘ $1?/'&‘ ./‘ 45 24=;/'‘ 15<‘ 45 24=;/2'# ./‘ .75/'‘ 6/769/‘ 15<‘ C51>/'# @0‘ 87997:45=‘ 72<‘ 15A./' /2‘ .4?'/98‘ 7‘ 124'# 18 /2‘ 977C45=‘ 45‘ 1‘ "4?@79 75

J;49 /‘ A7;5 /2615/#I‘ 15‘ 8915C/‘ @0‘ H 75/‘ A941C/‘ 78‘ 24A.‘ '49C#I‘ 15‘ H :7‘ 0/997 :‘ ' 779/'I * ./‘ ';6/21@;5F <15A/‘ 78‘ :.4A.‘ A797;2‘ ?;'‘ .1>/‘ @//5‘ <4'1<>15 1=/7;'‘ 7‘ ./‘ A7?69/O475‘ 78‘ ./‘ 8; ;2/‘ 1<0‘ 1 ./245/‘ <8>45#B‘ :./5‘ .1‘ @/1; 0‘ 76/5/‘ ./2‘ /0/'‘ 75‘ 94/‘ <1KK9/‘ :729<#‘ 78‘ 1‘ ?72545=‘ 5‘ H‘ 1<0‘ 9.572&'‘ .1?@/2#I‘ :/‘ 845‘ H‘ ./‘ 277?‘ .;5=‘ :4 .‘ 87;2‘ 6//A/'‘ 78‘ 4?1=/20‘ 16/' 20#I‘ 15‘ ./‘ @/‘ 8;254'./‘ :4 .‘ H‘ 87;2‘ '1<A; 72‘ A971 .‘ A;2B‘ 145/'#945/‘ :4 .‘ @9/:‘ 5/12‘ 4‘ 4'‘ H‘ 75/‘ 94 9/‘ 1@/9‘ :4 .‘ 1‘ A126/‘ 78‘ =2//5‘ @10&'#I‘ 15‘ 19 7=/ ./2‘ ./2/‘ 4'‘ 1‘ 54?B‘ 94C/‘ 1'6/A‘ 45‘ ./‘ 277?#‘ 57‘ 45166276241 /‘ 7‘ ./‘ @7:/2‘ 78‘ 1‘ 07;5=‘ 91<0‘ :.7‘ :1'‘ </' 45/‘ 7‘ 1AC57 >9/<=/‘ 57‘ 972‘ 78‘ ./2‘ .15‘ 15‘ ./12

0‘ 72‘ .4?'/98#‘ 94/‘ 81 ./2‘ 78‘ 129‘ .129/'#‘ '9/6‘ @/5/1 .‘ 15‘ H 5<415BJ;49 /‘ A7;5 /2615/#I‘ :4 944;‘ H0/997 :‘ L41?1'C/‘ A;2 145/'#I‘ :.49/‘ 57‘ 9/''‘ .15‘ H‘ .2//‘ /9@7:‘ A.142/'‘ 78‘ 0/997 :‘ <1?1'C#I‘ .1>/‘ 12?'‘ 76/5‘ 7‘ 2/A/4>/‘ .4?#‘ 15‘ ' 779'‘ 78‘ ./‘ '1?/‘ @24=.‘ ;/‘ 12/‘ 2/1<0‘ 7‘ ';6672‘ .4'‘ 8// ‘ 0‘ 1<0#‘ 75‘ ./‘ 7 ./2‘ .15<#‘ 2/67'/‘ 45‘ 1‘ H‘ 277?‘ .;5=‘ :4 .‘ '4O‘ 6//A/'‘ 78‘ .142/‘ A199/‘ '49CB‘ :1 /2/‘ ?7/.142/ I‘ 8‘ 75/‘ ?10‘ 62/';?/‘ 7‘ 977C‘ 8;2F ./2#‘ :/‘ '//‘ <21:5‘ 127;5‘ ?0‘ 1<0&'‘ @/‘ H '4O‘ ?7/.1.&/‘ A;2 145/'‘ =1254'.‘ :4 .‘ 24'.‘ ' 4 A.‘ 15‘ 8245=/#‘ 15‘ 87;2‘ 24'.‘ ' 4 A.‘ '946'‘ 199‘ 845/‘ :4 .‘ :.4 /‘ :1 /2/‘ 1@@0#I‘ :4 .‘ A7;5 /2615/'‘ H‘ ';4 1@9/‘ 7‘ ./‘ @/‘ I * ./‘ ;66/2‘ 75/#‘ 5<415#‘ C/6‘ <7:5‘ @0‘ H 87;2‘ =;49‘ 9075'& A91:/' I‘ ./‘ 2/?145</2‘ 78‘ ./‘ 8;254 ;2/‘ ?4=.‘ .1>/‘ 87;5‘ 691A/‘ 45‘ ./‘ '9//645=BA.1?@/2‘ 78‘ 1‘ J;//5‘ 5‘ 199‘ ./‘ @/<277?'#‘ 45<//<#‘ ./2/‘ 4'‘ 1‘ 6278;'475‘ 78‘ 199‘ 5//<8;9‘ 8;254 ;2/#‘ 15<#‘ 45</<#‘ ./‘ '1?/‘ 2/?12C‘ 16694/'‘ 7‘ ./‘ :.79/‘ ?15'475‘ ./2/‘ 4'‘ 15‘ />4</5‘ 45A2/1'/‘ 77‘ 78‘ H‘ 64AC ;2/'#I‘ '45A/‘ ./‘ <10'‘ 78‘ ./‘ 91'‘ 45>/5 720‘) 15<‘ '7?/‘ 78‘ ./'/‘ 12/‘ 51?/<‘ 5‘ ./‘ 2/1‘ 199#‘ :./2/‘ =49‘ A.142'‘ 15<‘ A4' /25'‘ 1@7;5<#‘ ./2/‘ 4'‘ H‘ 75/‘ 64AC ;2/‘ 1‘ 9/5=.#‘ ./‘ 129/‘ 78‘ 12:4AC/#I‘ :4 .‘ H‘ 75/‘ 78‘ 42‘ <:12<‘ 1 75#I‘ H75/‘ 78‘ ?0‘ 1<0‘ 79/2145/#I‘ 15<‘ H75/‘ 78‘ ?0‘ 72<‘ .1?@/29145&'‘ 842'‘ 91<0#I‘ ./‘ ?/220‘ ;'15#

` ‘ ‘ ; ` '

<1;=. /2‘ 78‘ $7.5‘ 499# 'J # 78‘ 12:4AC'.42/‘ 8‘ ?0‘ 72<‘ .1?@/29145‘.4?'/98‘:/‘845<1‘672 214‘45‘ ./‘=2/1‘ <4545=B277?‘) 15<‘45‘ 94/‘15 /B277?‘ 7‘ ./‘<21:45=B277?# 1‘>/20‘57@9/‘ A7?6150‘ H45‘912=/‘821?/'#I‘ A7?624'45=# H ./‘ 1+9‘78‘ 72 .;?@/2915<# .4'‘ 91<0‘15<‘A.49<# ?‘ I5/‘821?/)‘ ./‘ 7;5/'‘78‘ /<872<)‘ ./‘ 7;5/'‘78‘ 15A./' /2)‘ ./‘ 1<0‘ .4?@9/@0‘15<‘ ./2‘ '4' /2'# 45‘ 75/‘821?/)‘ ./‘ 1<0‘ K1@/991‘ ?4 .)‘ ./‘ 7;5/'‘78‘ 15A./' /2‘15<‘ 1<0‘ 4A.# 45‘75/‘821?/)‘ ./‘ 7;5/'‘ 78‘ ;5</2915<‘ L 1A.124''1M# ./‘ 712/&‘ /1<#I‘15< H87;2‘ 19415‘6//A/' I‘ ./5‘:/‘.1>/# H64AC ;2/'‘45‘ '?199‘821?/' * "45=‘ .129/'‘ ‘@/ :/5‘ :7‘915'C46')‘ 15<‘.4'‘ J;/5/‘@/ :/5‘ :7‘915'C46'# 'J;42/‘ 7=/2'‘ 15<‘.4'‘ 91<0# 594 1‘915'C46‘@/ >+?/5)‘ ./‘ 129/‘78‘ 72 .;?@/2915<# 15<‘ 72<‘ 79915<# :4 .‘ 1‘915'9<6‘ @/ :/5 I‘ 4‘ ./‘H‘94 9/‘:1445=B277?#I‘5/12‘ ./‘=2/.‘ .199# 1‘277?‘.;5=‘:4 .‘H‘'1<A;9972‘@10/'#I‘12/‘?/15'‘78‘ 1?;'/?/5 # H‘75/‘6142‘78‘ 1@9/'# 1@9/B?/5‘15<‘@7O/')‘ 64+/‘A./'‘@712<‘15<‘?/5# 15<‘75/‘@72<‘7‘6910‘1‘87O‘ 15<‘=7;'/ I‘ ./2/‘12/‘57‘@77C'‘57 4A/<1‘199)‘@;‘ ./‘ :45/# H‘' 275=‘15<‘'?1 B@//2‘ '/99/2'‘I‘45<4A1 /‘1‘>124/ 0‘ 45‘ ./‘@/>/21=/'‘ 7‘@/‘J;188/<45‘ ./‘ <4545=B277?‘72‘ ./‘'/2>15 '&.199‘ 44/‘277?'# 16/' 24/<:4 .‘ ./‘:72C‘ 78‘ /<15‘15<‘7 ./2‘872/4=5‘977?'# ?;'‘ .1>/‘:725‘1‘ ' 1 /90‘166/1215A/‘ ./‘ 1'9/‘ 1 /.7;'/‘.1'‘57:‘ 7590‘1‘'/?4B'/247;'‘1'6/A ‘ ./2/‘12/‘4.;'C/ '‘ ./2/‘1'‘ 78‘072/# 15<‘@21''‘15<‘4275‘:199B64/A/')‘@;‘ ./2/:4 .‘ H‘545/645'‘ 15<‘@7:9#I‘15<‘H‘';889/B@712<‘ 1@9/'‘15< 821?/'I‘12/‘45‘ ./‘94 9/‘.199#872‘199‘:.7‘12/‘<4'67'/<7‘ 6910)‘:.49/‘H45‘ ./‘@24AC/‘.1 #I‘1?4<'‘1‘?4'A/9915/7;'‘ </67'4 # 12/‘2/=4' /2/<* H‘:7‘@21''‘=;5'# 1‘=2/1‘</19/‘ 78‘79<‘12?72# ./1<#@1AC# 15<‘@2/1'‘6//A/'# ‘ ‘ A.;25'# 2;5C'#79<‘A.142'#I‘15<‘1‘=2/1‘</19‘78‘7 ./2‘ 9;?@/2‘ ./‘7884A/'‘12/‘8;99‘78‘14<'‘7‘?1C/‘948/‘1‘ 612 4A;91290‘69/1'15‘ .45=# 45<4A1 45=‘1@;5<15‘=77< A.//2‘15<‘2/845/?/5 # 15<‘/>/5‘45A9;<45=‘H‘'/>/5‘<7K/5‘ 78‘8910/5‘5169<5''‘872‘ ./‘ ' /:12<&‘ .199I * 9;O4224/'

: .4A.' ./'=/5 9/?/5'&=/5 9/?/5'15<' ./' ;66/2' @4=149''
2 ./2/'1''/?@945='1' ./42'2/61' '' A7;9<#:4 .7;'<7;@#
.727;=.90'1662/A41 /
./5' 974"45>/5 720':1'' 1C/5# ./' 129' .129/'':1''
0/'1'@1A./972' /' C/6'1''794 120''1/'1'"4?@79 75'
L:./5'57'7./2:4'/'/5=1=/<'45'@245=45='1@7;' ./'
/>79;475'78' 3QQ'15</'1@.'.45=' ./'5/:'72</2'78'
.45='M'872'.198'1'<7K/5'0/12''' .1'9/4';2/'./'A7;9<'
.1>/'.1<'872' ./'69/1'15'61'4?/'78':7745=#4':7;9<'
@/'<4884A;9'7''10')@;#.1'./'1AA7?694'./<'.4'':4.'
=77<';AA/''.2/#4''1'?7''1; .724 1 4>/'1'';215A/
./'87997:45='<7A;?/5'4''7'812'78'45 /2/'#1''4'
2/8/2''7'./'?12241=/'78'./'/129#827?'>.7'/'616/2'#
:./5'1?@1''1<72'827?' 49941?' '7' 7;4''% ! #
./2/':499'@/'87;5<'1?69/'/O 21A ''45'1''';AA//<45='61=/'
./'0/12'3 '>1'15'/>/5 8;9'75/'7'.4''57@9/?15#
'//45='.1'?'4'./' >77/<'15<' >75' ./''/A75<'
<1;=./2#15<'75/'78'./'A7B./42'#78' 72<' 277C/#15<'
:1''1'./''4</'78' 49941?'1'./'@1 9/'78'./' 705/'
./''@D745/<'A/2 484A1 /'78'./'?12241=/''//?''7'.1>/'
@//5'</94>/2/<'7'./'5/:90B?1224/<'A7;69/'75'./'<10'
18 /2'./';5475(*

H' ./'/'12/'7'A/2 480'1'':.7?'4'?10'A75A/25#.1'
./'4=.' 757;21@9/'.129/'#129'78' 15A./'/2#15<'
./' 757;21@9/' 7<45= 75' 2/>499# 78' 2/?/2#45'./'
A7;5 0'78' 7;.1?6 75# >/2/'?1244/<'45'./'6124'.'
A.;2A.'78' 19/#45'./'A7;5 0'78' 7;.1?6 75#1AA72<45='
7'./'.;2=0'78'./' .;2A94'78' 5=915<'1''@0'91>>'/'1@F
94'./<#75' .;2'<10#./'3.'78' /@2;120# 3 #@0' 2'
4A.12<' :/5#A9/2C#A;21 /#bA' 5'/'4?750'>./2/78#
'.1>/'./2/;5 7''/'?+'.15<#.4'' ,.'<10'78' /@2;120#
45'./'0/12'1@7>/' >24 /5
^ ;E0,1V' F') '3 '

+B' +B;?' 45>C),' @,' 05 6' C-54,,1' 50' +B*+' 9;??;50'
,0+->?+,1'+5' 5-1' *04B,?+,-' 6B5?,' ;0?+->4+;50?' B*6,'
=,,0' C-;0+,1';0' *' C-,4,1;0E' 4B*C+,-

./' A722/'675</5A/' 827?' :.4A.' .4"' 51221 4>/' 4"' 8481?/<' 4'# :4 .'>/20' 212/' /OA/6 475# 75' 72<' 15A./'F /2&"' '4</' 7590' /' 9/125' 1' 75A/' 827?' 4' .1' 72<' 15A./' /2' :1"' @;'490' /5=1=/<' 45' '/2>45=' 944"' 27019' ?1' /2# 975=' 62/>47;"' 7' .4"' 2/A7=54 475' 1"' 1?@1''1<72' 827?' ./' 7;2'78' 5=915<#@0' 1'6;@94A' 72' 624>1 /'2/A/6F 475' 1' !/2'1499/'' ':1"' 1'612'78' .4"'<; 0' 7' :1 A.' ./' 1=/5 "' 78' ./' 5=94'.' 7;2'1' /2?145'# 15<' 1?75=' .4"'/1294/''A7??;54A1 475"' 7' ./' 7884A419' '/A2/ 124/"' 12/' 4/?"' 78' 45872?1 475' A75A/2545=' ./' H 5 /994=/5A/2'#I' 1"' .7'/' 1=/5 "' :/2/' A199/<' 5' /6/?@/2' 3 # ./' :24 /'(*

H' ./2/' 4"' 78 /5' '/>/219' 78' 94 9/' 57 /' A7?/"' 7' /4&?145"') 15<' 75/# /72=/' 499'# 94>45=' 1' ./' '4=5' 78' ./' .46# 45' .129/"' 2// # /' ?45' /2# C//6"' 1' >4A;19945=B.7;'-' ./2/# A1?/' .4 ./2' 5/12' .2//' : //C"' 1=7' /' '10"' ./' @27;=.'9/ /2"' 827?' '612941?/5' ?/5' /' 4"' '4' 1' 75 145/@9/1;# :./2/' ./' /O6/A "' .4m' </'61 A./"' 872' 5=915<') 15<' '@/94/>/' '' .199' C57 :' :./5' ./' =7/'# 15<' :45A.' :10

H' 2' .7?1"' $7.5'75' A1?/' 19'7# 15<' :/5' '775' 1:10' 872' 5=915<' /' C//6"' ./' 77C&"' 2?'# 1' >4<;19.5=B947;'/# 5/12' 7AC/ &' /' 4"' 1' '72' 78' 81A 72' 872' 7975/9' 4=515# 15<' .1"' P' 6/2' 155;?' 2'' >15"' 4"' =75/' 872' 5=915<' ./' '1:' "45=' $1?/"' 15<' ./' J;//5') :1"' 45 27<;A/<' @0' 42C/5./1<' ' 4"' @/94/>/<' './'@27;=.' 15<' A12O4/<' @1AC' 9/ /2'' ./' 4"' ./' :48/' 78' / /2' >15'# .142B?/2A.15' 45' ./' 9<' 149/0 I

5' 7 ./2' A1'/'# ./V672 214;2/' 78' ./' 6/2'75' 4"' =4>/5' :4 .' ?72/' /91@721 475' .15' ?' 1' 61''672' 5/' /2C/F 9/0# :.7' @27;=.'9/ /2"' 7' 72<' 2;??75<# 72<' 15<' 1<0' /2 .# 15<' 7 ./2' A7 4'.' A7;2 4/2"' :14 45=' 75' "45=' $1?/"' 15<' .4"' 872 ;5/'# 4"' </'A24@/<' 1"' H' 1' '.72 # .4AC# @27:5' 8/997:# 1=/<' 1@7;' Q# :4 .' 1' 912=/' ?7;. I' 4"' ?4''475' :1"' 7' 45872?' ./' 972<"' 45' ./

/O49/< 5=94'. 7;2#78$1$</'4=5$872?/<872$H</@1;A.45=$ ./$12?0#I$45$ A7915< $ ./$</'4=5$:1"1 /?6/< 7$ @/$A1224/<$45 7$1A475$@0$'/<;A45=$'7?/$<4&1=775"$827?$ ./42$<;0$ H$ 5/$ 4/;/515$ =49>0#I$'10"$ 72<$ 15F A./'/2# H$4"$ 1$=2/1$?151=/2$45$ .1$188142$ /$4"$45$ 72<$ 4>47&"$2/=4?/5 I$ /$:1'#.7:/>/2#57$./$'79/$?151=/2$78$2/1'751@9/$</'4=5"$1=145'$ 4 41?$ 5$ /OBJ;12/2?1'/2$78$.72'/#45$"45=$$1?/'&"$'/2>4A/#75/$ 7.5 7/@4;25#4"$'67C/5$78$1"$H157./2$</6;0I$ @245=45=$9/ /2"$827?$./$129"$78$2/J;142/$15<$;?/$ 7/@;25$:1"$H$A7??4''475/<827?$94/$:.79/$612 0$78$ 94/$'7;.$78$A7915<I$ /$?;'$.1>/$@//5$15$1=/5$ 78$'7?/$2/'6/A1@494 0$)872$72<$15A./'/2$</'A24@/"$ .4?$1"$H$57:$=7>/25 $7$72<$/1 75#:57?$./$45 27F <;A/<1$75 145/@9/1;#7$C4'"$"45=$$1?/'&".154$I 27?$.4"$4?/$7$./$A97'/78.S$0/12#4/?"$78$ 45872?1 475$78$1$'4?4912$51;2/';AA//</1A.$7./2$:4.$ 2164<4 0$ $75/$4?/#./$5=.'.$7;2$4"$:125/<$ 1=145'1<;@47;"$6/2'751=/$51?/<$9148C/#$ $1./2$ 7'?7#:.7H4"$=745=$7$5=915<#4$4'14<#:4.$'7?/$ A.121A/2$827?$./$;C/$78$972/5A/$7$627/A.4?$ /$4"$>/20$:/99$1AJ;145/<#I$1<<"$./$/J;1990$:/99B$ 45872?/<1?@1''1<72#H$:4.$75/$7AC@;25#1$=79<'?4.$ 94>45=$1$7;5<7;2#45$./$215<#15<>499627@1@90$ =7$7$.4?#1"$'775$1"$./1224>/'I$.49/$<42/A45=$./$ 1/5475$78$.4"$7;2$7$.1$97A194 0$41$./$215<$:.4A.$4"$57:$1"$94 9/$C57:5$1"$./$A77C&"$6121<4'/# 7724<=/$'915<#15<./$.4/>/'&277C/20#./$/2F ?;<1'#78$:.4A.$7;5<7;2$:1"$1$612#1$./$572.F :/'$'4</78./$./5$51227:$.4=.:10#./$1?@1''1<72$;25'"$827?$21AC45=$?/5$:4.15 &7$6745$7;$./$:10$:.4./2?/5$78$=2/1/2$57/$12/$@/1C45=$./?F '/9>/' H$./$;C/$78$2;5':4AC#I$./$'10'#H45.4"$91'$D7;2F 5/0#62/>149/<:4.$./$76/$7$610$"$$1?/'&"$122/12"$ 78$#+$6/2$155;?#872$87;20/12"$61'$78$.4"$6/5'475$:.4A.$:1"'76$75$1$</A9121 475$"$$1?/'"'/5$45 7

5=915<' 45' 81>7;2' 78' ./' 27 /' 15 '# :.4A.' :1'' 2/F ?4 /<' @0' .4'' 912C/' 827?' /=.725' 7' 5=915<' 12' 78' 4'4'' 7' 944'' 7AC@;25'') 612' 7' 916 75# 1' :7799/5B' <216/2' 45' ./' A4 0 * 94/0' <7' 57' C57 >' ./' '2//#@;' .'4'' 24A94' 15<' :/99BC57:5'') 15<''7?/' 7' 1 /# 1' :7799/5B' <216/2' 45' ./' A4 0' ./';'/' 78' 4 # 4'4'' '14<# 4'' 7' @24@/' 12941?/5'?/5' 912C/' .1'' 19'7' @27;=.' ./' A;22/5 0/12&'' 6/5'475' 7' 124'# 7' ./'>19;/' 78' - # ' A27R>5'# :.4A.' '' '$1?/'' .1'' 6;'45 7' ./' .15<' 78' 75/' 55Y'' ./' 624/'# 15<' 1 ./2' 159</' ./'$/';4 # 7' @/'<4' 24@;/<' 1?75=' ./'5//<0'$1A7@4/'' ./2/'') -# '12/'=4>/5' 7' ./' '78' /4U:4AC# 72<' /9872' # +# 1<0' 02A755/' # +# 15<''7?/' 7' 72<' /2.'') 15<' # 'A27L+>5'' 7' 4 K' $1?/'* ./' 4'' 1' ?75C# @;' <7/'' 57' :/12' ./' .1@4 I

./' $1A7@4/'' 75' .4'' '4</' 78' ./' .155/9' 612 4A4F 61/<' 45' .4'' 94@/219' <4' 24@;475' 78' 8;5<''' 5/' $7.5' 19.'' 4'' </'4=51 /<' 1'' ./' 2/A464/5' 78' 1' 6/5'475' 614<' J4;12 /290# 15<' ./'@/ /2BC57:5' 7975/9' 49941?' 24?/'# /OB94/;/515' 78' .72'/' 45' ;5</!&'' 12?M&& 4'' 51?/<' 1'' @/45=' 614<' 45' .C/' ?155/2# 1' <45@;2=.

' .4'' 6/247<' ./2/' :/2/' :7' /OB?494 120' ?/5# </'4=51 /<' 1'' '75'' 78' 7975/9' 24?/'# 15<' 2/91 4>/'' 78' 72<' /2.#:.7' :72/' ./' 2/94=47;'' .1@4' 45' 215A/# 18 /2' 9/1<45=' 21 ./2'=10'94>/''1' ./' 5=94'.'A7;2' 78' ./' ;12'# 15<' 45' ./42' '/2>4A/# 45' 5=915<' ./' /9</2' 78' ./'/':1'' 1' 16;A.45' 82412# 57:' 51?/<a' 27 ./2' 2A.F 15=/9'') ./' O7;5=/2':1'' 1' 21664''' 78' =271'A/9/@24 O#' C57:5' 1'' 27 ./2' 9/O4'#@;' 57' 1'' 0/' C57:5# 872' ./' <4<' 57' /5 /2' ./'A7??;54 0'@/872/' ./'0/12' , ' ./' 07;.' 78' 9/O4'' L1'?15' C57:5' 45' ./':729<' 15<' ./'89/'.' 1'' 7975/9' 7@/2' 24?/'# 72' 2/?/# 72' 1AA72<45=' 7' 7./2'' 21.1?M#.1<' @//5' 1'' 72?0' 75/' 5' .4'' @70F .77<' ./' .1<' @//5':.466/<' @0'.4'' 627'@0 /2415' ;72' 872' 1 /5<45=' 1' 7?15' 1.794A''/2>4A/' 45' ./' A7 4'.' A164 19' .4'' 7;21=/'9/<' 7' ./' @70'@/45=' 215'8/22/<' 7' ./'C//645=' 78'.4'' C45'?15' 72<' /2.'') @;' :./5

5/A/''1249O2/'#;59/''.'4?67''4@494 O78';A.'1'A42A;?F
G! '15A/'A7;9<@/'</?75'21/<@O422/8;1@9/'/>4</5A/'
5'6745'78'81A#./'91:'<4<'7'2/A7=54'/'./?#./'
.;'@15<'@/45='H':4.45'./'87;2''/1'#I':./5'./'?4=.'
.1>/'@/A7?/'./42'81./2')@;'./'612.1?/5'7>/22;9/<
./'/A.54A1.4/''78'./'91:#15<.;''1>/<./'.757;2'
78'15@?O'827?'@/?='145/<@O'./'@1'12<''78'!1;O'
4A.791''<4/<45'3,#15<:1''';AA//</<@O'.4''75'
.129/'#./''7BA199/<72<15@;20#./'@4=1?4'#:.7'
?1224/<9R2''/'/2'15<9R2''24A/#./'?4'2/''''78'
A;?'77<?15'944''?1/2'78'@4=1?O':1'',OE*E;OE'
./'6;@.A'1/5475'@/872/'72<15A./'/2':/5'75'
''?4''475'7'124''')15<./'>/2<4A'45'./'A1'/'4''499'
1'24<<9/'7'.1'6;@.A&''</'A/5<15'#872'./'D;2O#
;51@9/'16612/5 9O'7'</A4</':.4A.'91<0'./':7;9<B@/'
6//2'.1<?1224/<842'#62757;5A/<45'81>7;2'78'2''
/'/2#872'57'7./2'2/1'75'.15'.1''.1<A.<<4&/5#
@O'.4?#15<2''24A/'.1<575/'Ñ'A7;9<.1>/'@//5'
575/'78'./'/':.7'A914?/<7'45./24'./'4 9/'78'129'
78'15@;20#18/2'./'</1.'78'.4''81./2'45',''
.1'6/247<#./'4 9/':1''1'';?/<@O'.4''75'.129/'#
@725'45',#15'/AA/5 24A'?15':.7'<4/<!4A12'78'
;2872<#45'O872<'.42/#45',,'./':7'75''78'./'
>4A12#15<8451990'./''75'78'.7?1''./07;5=/2'78'
.7'/':7#51?/90'./91/'/5/219'49.1?'"57 0'#
A914?/<7'@/''';??75/<7'./'7;'/'78'//2'#1''
129'78'15@;20')@;'45'Q#./'.7;'/'</A912/<.1'
./'A914?'2/''/<75'57'9/=4 4?1/'=27;5<')15<4'.1''
57''45A/'@//5'214'/<572'.1''./'4 9/'@//5'1'';?/<@O'
150'?/?@/2'78'./'D47 0''81?490
./'15@;20'A1'/':1''7590'/J;199/<45'45/2/''@O'
./'1AA9/'84/9<A1'/'/212<#'/A75<129'78'1AA9/'F
84/9<#:.7'<4/<'.72 90'18/2'./'/2?451 475'78'72<'
15A./'/2&''?4''475'7'215A/#'1 4'81A 7249O'627>/<
./'4?67''4@4.0'78'.4''@/45='./'81./2'78':7'A.49F
<2/5'@725/'@O'./'A7;5/''#:.7#75'./2'4</#51221/<
1''21 1=/?''./'.1<</>4'/<#:./2/@O'./'<4'6;/<

d ' '

"' !

A ' ' 9 ;)

' . / ' /' 499 ; ' 21 475 '' 78' @OB=75/' A7 ; 2 ' 15<' '7A419' 948/# : /' ? 10' 2/ > / 2 ' 7' . /' 5=94' . ' 1 ? @1 ' ' 1<72' 45' 124 '# : . 7# 45' . 4 '' 9/ /2 '# 9/1>45=' . /' </ 149 '' 78' . /' 45 24=; / '' 78' 697 /2 '' 75' 15<' 788' . /' ' 1=/# ; 25 '' 872' 1' ? 7 ? /5 # 15<' 7590' 1' ? 7 ? /5 # 7' '6/1C' 78' . 4 '' 7884A419' 2/A/6 475' @0' 7 ; 4 '' % ! ## 1' A/2/ ? 750' : . 4A . ' '7 ; 2/<' / > / 20' $1A7@4 /' . / 12 # 872' . /' <10 ' 4 '' 972<' . 46' : 1 '' 2/A/4>/<' @0' . /' C45=# 45' 624>1 /' 1 ; <4/5A/# 75' ; 5<10' / > / 545=# 7>/ ? @/2' -# 3 ' 8' p . 4 '' . /' =4> / '' 1' 975=' 1AA7 ; 5 # @ ; ' 1<<'' : 4 . ' 6/28/A ' 2 ; . # : 4 . ' 2/ '6/A ' 7' . /' A/2/ ? 750' 15<' . /' > / 2@41=/# . 1 ' H . / 2/' 61 ' ' /<' : . 1 ' 4 '' ; ' ; 19' 75' ' ; A . ' 7AA1 '475 ' I' /' . 1<' . 4 '' 1 ; <4/5A/' 78' H 1<1 ? / I' 75' . /' '1 ? /' / > / 545=' H ' : /5 #I' . /' : 24 / '# H : 4 . ' 84>/' A71A . / '# 1 ' . /' 5=94 ' . ' =/5 9/ ? /5# : . 4A . ' ' 499' 45A2/1 ' / '# 15<' : /5 0B87 ; 2' 45' . > / 24/ '# /1A . ' 78' . / ? ' A122O45=' 1' : . 4 /' 891 ? @/1 ; ' ' n ? ' =91<' ' 1 ?' A7 ? 45=' 7' 1' A75A9 ; '475' 78' . / ' /' >154 4/ '# . 7 ; = . ' ' 1 ?' '1 4 '84/<' 4 ' <7/ '' ' /2>4A/' . /2/# 15<' ? 1C/ '' '7 ? Y' > / 20' ? ; A . ' /521=/< I' 1 ' '45=' 827 ?' . / ' /' >154 4/ '# . 4 '' 972<' . 46' '6 / / <490' 1<<2/ ' ' / '' . 4 ? ' / 98' 7' @ ; '45/ ' ')' 2/A7 ? ? /5<45=' . /' ' /4K ; 2/' 78' 75/' 91 ; </# 1' 2/5A . ? 15# H' : . 7' ' /2> /<' . /' 91 /' 972<' 2 ; </5/99)' ' ' . /' 4 '' 19 ? 7 ' ' / > / 20' 54= . ' 1 ' . /' 7=' 1 > /25' 45' 2 ; 20' 15/ ' ' ' ' . 4 '' 91 ; </' : 1 '' ? ; A . ' 1 ' ' /2 ? 145 '# 15<' /5</1>7 ; 2/<' 7' ' /< ; A/' ' / > / 219' 5=. ' . ' . 4 . /2') @ ; ' . 1 ' : . 4A . ' : 499' @/' 1' @ / /2' 2/1 '75' 872' ' /A ; 245=' . 4 ? # 4 '' 872' . 1 > 45=' 1 /5</<' 75' 4A . 12<' 75# 75/' 78' . /' 1 ' ' 1 ' ' 45 '# : . 49/' . /' : 1 '' A75A/19/<' 45' . /' 91 /' 72<' 2 ; </5/ &'' . 7 ; ' /# : . 4A . ' ' 1 ? 79<' . /

45 /2>4/ : '' : 4 .' 944'' A19A;91 45='1=/5 # : .7' A7;9<'57 ' ./'
@27;=.' 7' ' 1 /' : .1 ' 624A/' ./' ' / ' ;675' .4'' '/2>4A/'#
: .49/' ./' <4'6910/<' A75'4</21@9/' 15O4/ 0' 7' <4'A7>/2'
: .1 ' 2/ : 12<' ./' : 1'' 7' /O6/A '872' ./ ?' 827?' ./' 5=F
94'.' =7>/25?/5 ' /' : 1'' 2/?45</<' .1 ' ./2/' : 1''
'7?/ .45='78' >19;/# 7' ?/5' C/' .4?# 45' ./' 81A ' 78' .4''
612<75' 15<' 2/' 721 475' 7' .4'' A7;5 20# 15<' .1 ' .4''
2/ ;25' 7' ./' '/2>4A/' 78' $1?/'' : 1'' 62/A9;</<' @0' ./'
A42A;?' 15A/' .1 '.4'' @/ 2101' 78' 4 ' : 1'' 192/1<0' 57 724F
7;' ' .`'/'.45 '' : /2/' <4'?4''/<' @0' ./' >/ /215' 697 /2'
1'' ;5 : 72 .0' 78' ?;A.' A75'4</21 475# 15<' 199' .4'' A12/'
: 1'' 7' C57 : ' : .1 ' '19120' : 7;9<' @/' 614<' .4?' 872' .4''
2/>/91 475'# 72' 872' .4'' />4</5A/' 45' 76/5' A7;2 ' 1=145' '
.4'' 79<' 1''7A41 /' ' 7' ./' 45 4?1 475' .1 ' ./' '.7;9<'
2;' ' 7' ./' 2701' @7;5 0# 15<' .1 ' 45' 627672 475' 7' ./'
>19;/' 78' ./' '/2>4A/' : 7;9<' @/' ./' 1?7;5 '78' ./' 2/ : 12<#
./' 7590' 2/ ;25/<' 1' <4'<1458;9' 2/690') @;' : ./5' 62/' ''/<#
7' ' 1 /' : .1 ' .4'' 7 : 5' >4/ : '' : /2/' a75' ./' ';@D/A ' 78'
A7?6/5'1 475#./'2/8;'/<' 7' ' 1 /'150 .45='75' .1 './1<#
45'4' 45=' .1 ' 15' 788/2' ?;' ' A7?/' 827?' ./' 7 ./2' '4</#
';==/' 45=' .1 ' 1' =77<' 27;5<' ';?' : 7;9<' @/' 62/8/21@9/'
7' 84O/<' : 1=/'' : .4A.' ?4=.' @/' ' 766/<' 1 ' 150' ?7?/5 #
72' : .4A.' ./' ?4=.' 97'/' 45' ./' />/5 ' 78' 1' ';AA/''8;9' 2/F
>79; 475' 45' 81>7;2' 78' " 45='$1?/' ' 9 4?1 /90' ./' ;5F
@9;' .45='A1?6' : 1'' 1'C/<# H' 48' ./' ' .7;9<' 57 ' .45C' .4?F
'/98' : /99B627>4</<' 872# : 4 .' 1' 6/5'475' 78' 4' 1' : //C I'
72<' 15A./' /2' 1<<''(H' /' <4<' 57 ' 7@D/A ' ?;A.' 7'
.1 # 627>4</<' ./' ?4=.' .1>/' 7>/2' 15<' 1@7>/' ';A.' 1'
';?' 1'' : 7;9<' C//6' .4?' 45' 150' A7;5 20# 45' A1'/' @0' 150'
2/>79; 475' ./' : 1'' 872A/<' 7' 890# 72' .1 ' ./' : //C90'
6/5'475' '.7;9<' @/' ' 766/<# @;' A.4/890' 7' ?1C/' 1' 627F
>4'475'872'.4'' : 48/'15<' : 7'A.49<2/5# '1045=' ./'2/6271A./''
./' A75 45;1990' ?1</' .4?''/98' 872' .1>45=' <21 : 5' ./?'
45 7' ./'/' ?4'872 ;5/'# 15<' ./'</'42/' ./' .1<' 78' ?1C45='
./?' '7?/'1?/5<'# : /2/' ./' A.4/8' 2/1'75'' .1 ' ?7>/<'
.4?' 7' 1AA/6 ' 78' .4'' 62767'19 I' ' 62/''/5 ' 78' .2//' 72'
87;2' .;5<2/<' 67;5<'' H' 7' @/=45' : 4 .' I' : 1'' ';==/' /<

A7 915<# 72 '//48 A7 915< (@/9/<# 45 7 2/@/99475
g 75/0 45 @499" 72 .12< A1'. :1"A75' 15 90 61''.4=19'7#
'7?/4?/" 872 =/5/219 '/2>4A/# 1 7 ./2" 1<<2/''/< 7
45<4>4<;19'
57 4?/ :1" ./ >4=4915A/ 78 72< 15A./'/2
?72/1A 4>/ .15 1 .4" 6/247<# :./5 ./ :1" /5=1=/<
45 2/A/4>45= 2/672 " 78 ./ 199/=/< </'4=5" 78 ./
$1A7@4/" 2/'4<45= 45 215A/# 15< 45 215'?4 45=
45 /994=/5A/ A75A/2545= ./ ?1A.451 475'# 2572/ 72 9/''
2;90 </57;5A/<# 78 6/2'75" :.7 :/2/ ';667'/< 7 @/
/?6970/< 45 14?45= 1 ./ </'2;A 475 78 ./ .8/ 78
4 41? .27;=.7; ./''; ??/2 15<1; ;?5 ?75 ."
78 , # ./'/2/672 " @/A1?/ /'6/A41990 82/J;/5 # 15<
12/ 7AA1'4751990 ?1</ 45 1 >/20 /125/' 75/ 4 ./2 7
2 /A2/ 120 /?75 72 7 2 91 .:10 ./ 87947:.4=
J;/24/" 15< ?1 /2" 78 45 /994=/5A/ 12/ 1<<2/''/<(*
</'42/ 7 C57:;675 :.1 877 07;45 /5< 7 .1>/ 1
6/2'75 :/ A199 ./2/ 27A12<# 72 :./ ./2 72< $/2'/0 4"
7 1C/ A12/ 78 .4? ! 2 15015 A15 /O69145 .4" 7
07; I 8 944" '60 :/ '.199 ./12 ?72/ 62/''/5 90# ?/15F
:.49/ 72< 15A./'/2 .1" '7?/ 9445= 7 A7??;54A1 /
7;A.45= 157 ./2 '72 78 <15=/27;" ?/5(*

H 42 .129/" 14 915< 15< 1D72 79?/" ./1''1''45
12/91 /90 A7?/ 827?' A7 915< ./0 .1>/@//5 :4 .
./91 /C45=# 15<1''; 2/ .4?' .1 1 1 612 0 78 ./ A7 "
12/ 2/'79>/< 7 '4 @0 872A/# ./ 5/O <10 .1 4"
166745 /< L872M ./42 ?// 45=) .1 .`12?0 4" :/99B
?A.5/<# @0 2/1'75 ./0 1C/4 941 4 4" 1 51 47519
A1;'/) @; .1 ./0 .1>/57 .76/" 78 ./42 /5/219#
"1?'10 .4" 79?/" :1" 57 975= 45 A7 915<# @/45=B
'/5 827?' ./5A/B 7 ;C/ 1?49 75 5/ !1>1'72# 1
91:0/2# 15< 75/ ;227;=.'# 12/ A7?/ 827?' 5=915< 75
./ '1?/ 1AA7;5 ./0 62/ /5< ./0 :15 57 .45=
@; ?75/0 7 2/' 72/ ./ 91 / "45= $1?/'# 15< '10 ./
12.154/5 78 A7 915< :4 </A912/ ./ .275/ >1A15 #
;5</2 62/ /5A/ ./ "45= L 49941?M .1" 57 627 /A /<

94/? .4' 1>1'72 'J;45 '# 15< 4' C57 : 5 45 5=915<
@0 ./ 51?/ 78 /=7   : 499 /5</1>7;2 7 =4>/ 07;
57 4A/ : ./5 ./ 2/ ;25'# : .4A.# 4 4' '14<# : 499 @/ '775
 7; '// @0 .1   ./0 : 7;9< @/ <745= ?4'A.4/8 48 ./0
A7;9<# @;   .76/ 4   : 499 57 @/ 45 ./42 67 : /2
 H ./0 @245= .4' 1AA7;5 19'7# .1   ./2/ 4' 1 @77C
45 ./ 62/' ' 1=145'   ./ =7>/25?/5 # ;675 1AA7;5 78
 ./ 91 / 2/1 0# : ./2/ 199 .1 A15 @/ .7;=. 7 .1>/
1A /< 499 4 12/ 51?/<# 15< >/20 '/>/2/90   ./0 45 /5<
57 7 <4'6/2'/ 4 <9 5/12 ./ ?// 45= 78 ./ 5/O
'/''475# .1   ./2/ ?10 57 @/ 4?/ 7 15' : /2 4   .4'
! 1>1'62 '10' .1 ./ .1' '//5 '/>/219 '.// ' 78 4 8
07;A7;9< '/4K/'7?/ 78 ./?# 4 ?10 @/ 78 ;'/ I

1>45= 2/A/4>/< 45D;5A 475' 827? .7?/ 7 @/ >4=4F
915 45 124'# 72< 15A./' /2 1=145 : 24 /'(* H '.199
A/2 14590 1C/ A12/ 7 : 1 A. ./ 1''1''45') .7;=.# 1
62/'/5 # A1557 9/125 : .1 ./42 A7?45= ./2/ ?/15'
72 7975/9 12C/2# ./ ?10 .1>/ @//5 1 72</1;O#
E 4; ./ .1' @//5 872 '7?/ 4?/ ./2/# 15< 166/12' 6;@F
94A90 ./0 1 =7 7 /2?145'# @; 4 4' '14< " 45=
$1?/' <7/' 57 '// ./? A1557 .45C ./0 : 499
1 /?6 150 .45= 78 ./ 94C/ 51 ;2/ 1=145# ;59/' ' '7?/
</'6/21 /' '.7;9< /5</1>7;2 4 1975/) @/'4</'# 1?' '1 4'F
84/< 1 /2?145' ./0 8/12 ./ 94C/ '.7;9< @/ '/2>/<
./? />/2 ./9/''# :/ A15 5/>/2 @/ 77 A12/8;9 I
8 1 5/ : A7?/2 7 /2?145'# 1 ?15 G:4 . 1 819'/
51?/ 15< ';'64A47;' A.121A /2# ./ 1C/' ? ;A. 57 4A/
8 A7;2'/# ./ '775 9/125' 199 1@7; .4' ' 215=/2# : .7
4' # 94/ '75 78 42 49941? 76/# 15 7884A/2 78 .4=.
215C 45 49941?&' '/2>4A/ 72< 15A./' /2 C//6' .4'
824/5<' 1 .7?/ 45872?/< 78 ./ ?7>/?/5 ' 78 .4'
6/2'75 H / 4' 57 =75/ 0/ # .7;=. ./ 45 /5</<
4 / 4' 19:10' :4 . .7'/ 1 /2?145'# 15< 4'
/5 42/90 45 ./42 45 /2/' A1557 /99 48 4 4' @0 72</2
78 .4' 81 ./2# @; '.7;9< .45C 57 # @/45= 57 :
94/; /515 B=7>/2572 78 ./ 1' 9/ 78 <45@;2=. I 72

. /' ?7?/5 # 72<' 15A94/' /2' 4"' 9/' "' A75A/25/<' 1@7; '
. /' ?/2/' 1=/5 "' .15' . /' 4"' 1@7; ' .7'/' : .7?' . /' A199"'
1''1''45' ' H' 7975/9' 12C/2' 4"' ' 499' . /2/' L .' ;=; ' M#'
15<' . /' 2/' ' 78' . /' 1''1''45' ' 8'150 .45=' : 1"' 75' 877 #
. /' : 7; 9<' @/' . /' A.4/8# @; ' . /' 4"' >/20' 5/A/''4 7; ' '
1?' 79<' 2' ; 445=' 15<' 75/' 1; 5</2"' 78' ; @945' .1>/'
9/5 ' .4?# 75' .4"' @75<# P # : .4A.# 48' '7# . /' A14?7 '
=/ ' 150' ?75/0' 827?' ' /2?145')' . /0' '10' . /' 4"'
'7?/4?/"' 45' 624>1 /' : 4 .' " 45=' $1?/'# @; '4 '4"' 45' . /'
54=.) 872' . /' <7/"' 57 ' 166/12' 1 ' .1 ' A7; 2 # 1"' : /99' 1"'
. /' 7 . /2'# 6; @. A90 ' 7975/9' 945='@0' .1"' A7?/' 827?'
5=915<# 15<' .1"' =4>/5' . /?' =2/1 ' .76/'# 1"' 19'7' .1 '
. /' C45=' A1557 ' 94>/' 975= I' . /' 9/ /2' A75A9; </"' @0'
'1045=' .1 ' H' 5/' A; <1?72/# 1' 6910/2' 45' 45A795&"' 55'
4/9<'# .1"' @//5' . /2/# 15<' : 1"' : 4 .' . /' 91 /' C45=# 15<'
78 /5# 1 ' ' /2?145' ' /'4"' 57 : # '@/94/>/# 1 ' 75<75 '
/>/219' '; A.' '72 ' 78' 8/997 : "' =7' 15<' A7?/' >/20' 78 /5# @; '
' A1557 ' '//' .7 ! 4 ' 4"' 7' @/' 62/>/5 /<) 872# : 4 .7; ' 1'
67'4 4>/' 71 .# 57 .45=' A15' @/' <75/' 7' . /? I' 99; <45='
7' 75/' : .7' : 1"' 78' 1' J; 194 0' <488/2/5 ' 827?' H' '; A.' '72 '
78' 8/997 : "' I' 1"' A; <1?72/# 15<' 7 . /2' 6910/2'# 627@1@90#
2/8/22/<' 7# . /' /129' 1<<'# H' 72<' O/ /2' 4"' A7?/' 5/12'
124'# 15<' 45 /5<"' 7' '//' ! /2'1499/'# bA # 15<' . /5' 7'
5=915<' ' @/94/>/' . /' : 4 ' 57 ' A7?/' 7' ?/' ' C57 : '
4 ' 4"' /06/A /<' . /' : 4 &=7' /9'/ : . /2/' ' ?10' @/' . /' : 4 '
</A/4>/' . /? I' . /' 2; .' 4'# . /' 129' 78' O/ /2' '; 2F
624'/<' 199' 612 4/"' @0' <045=# 57 ' ?150' <10"' 18 /2' . /'
1@7>/' 61''1=/' : 1"' : 24 /5 ' /' : 1"' 75/' 78' . /' 6//2"'
: .7' </A945/<' 7' 1C/' . /' 71 .' 78' 199/=415A/' 7' 49941?'
15<' 120# 15<# '45A/' . /' 2/>79; 475' 78' 3QQ# .1<' 94>/<'
45' 2/ 42/?/5 # A.4/890' 45' . /' A7; 5 20 ' "' 1' ?15' 78'=/54; "'
15<' 9/12545=' . /' : 1"' : /9A7?/<' 1@271<' : . /5/>/2' . /' 21F
>/99/<' 75' . /' A75 45/5 # 15<' : /' .1>/' ''//5' .7 : '@7 .' . /'
4 41?4 /' 1?@1''1<72' 15<' . /' $1A7@4 /' C45=' .1<' . /42'
/0/"' ; 675' .4?# 1"' . /' : 1"' 61''45=' .27; =.' 215A/# 75'
.4"' .4' '2/ ; 25E827?' 7?/# /' <4<' 57 ' 2/1A.' 5=915<'
194>/# @; ' <4/<' 1 ' ''0# 5/12' 124'# 75' ; =; ' ' # , #

945</2' ./' :1 A.8;9' A12/' 78' .4'' A7;5 /''# 1' <1;=. /2' 78'
./' ;C/' 78' />75'.42/
/ ' ;'' 1<<' 1' :72<' ./2/' 78' 6772' A;<1?72/# ./' 1A 72'
827?' 45A795&'' 55' 4/9<'# 78' :.7?'ċ 72<' 15A./' /2'
'6/1C'' @;' :4 .' 'A15 'A7;2 /'0 ' /' :1'' 1' H'.=. 'A7?/F
<415P& :.7'/' 51?/' 166/12'' 1?75=' ./' 6910/2'' 1 ' .1 '
./1 2/' 827?' 3 3' 7' .4'' 0/12' L , M' 45' :.4A.' 94/' 5=F
94'.' 1?@1''1<72' '6/1C'' 78' .4?' 1'' 1'$1A7@4 /'1=/5 ' 4''
945/' 45A9;</<' ./' 1?727;'' 07;5=' C54=. '# ./' '612C945='
=/5 9/?/5) ./' 'A1?64'.' @/1;O# @7 .' 5=94'.' 15<'
2/5A.) ./'=10' 15<'.15<'7?/'C45='+' 94C/' <:12<' !)
15<' ./' <1'.45=' 07;5=' ./42''16612/5 # 94C/' .1C'6/12/&''
245A/' 78' 19/'# A;<1?72/&'' 94=.'=21A/' A7;9<' 57 '
?1C/' ./'<; '6910'' 78' [R 2'' 4O# 74a ./' 271245=' 21=/<0'
78' 4@@/2# 72' ./'8;' 415' 78' /554'# 72' ./'?1=5497J;/5 '
@7?@1' '78'=2/1 /2' :24 /2'# .>/' 5/' 21=/<0' 7590# 45'
:.4A.' ./' A2/1 /<' 1' 612 # .1'' C/6 ' ./' ' 1=/' <7:5' 7'
>/20' 2/A/5 ' 4?/'## 51?/90' ./' V 7;2545=' 24</#& 75F
=2/>/&'' H' 81>7;2/<' 615 7?4?/#I' 1'' .;2A.4 'A199'' 4 # 45'
:944A.' A;<1?72/' :1'' ./' 12A41 ' /' 2/=2/' 7' 845<'
A;<1?72/# 45' ;=;'' , # 691045=' ./'$1A7@4 /'1=/5 '
7019 0' 7' 15' /OBC45=' ?10' .1>/' 4?6/99/<' .4?' 7' .1 '
A7?&'/' '4'' A/2 145' .1 ' :15 'A7;9<' 57 '.1>/'<24>/5'
.4?' 7' 4 # 1'# 57 ' 7' '6/1C' 78' ./'6278/''475'45' :.4A.E./'
7AA;64/<' 1'2/'6/A 1@9/' 67'4 475# ./' :1''45' 7 ./2'2/'6/A ''
1' 9;ACO' 6/2'75) 1'' ?10'@/' '//5'@0' 15' /5 20' 45' ; 2/ &''
<4120' 10' Q# , * H 2' A;<1?72/# 78' ./' 6910F
.7;'/# 4'' ?1224<<' 7' 1' 07;5=' 91<0' 78' # +' 872 ;5/#
:.7' 8/99' 45' 97>/' :4 .' .4? I
á ;2545=# .7:/>/2# 827?' H';A.' 8/997:'I' 1'' ./' 6772'
1A 72# :/' ?//' :4 .' 57@9/2' 21>/99/2'' <;90' :1 A./<' 15<'
2/=4' /2/<' H' 72<' A12'<19/' 4'' ./2/# 15<' <7/'' 1'';2/'
?/'./' :499' .1>/' 57 .45=' 7' <7' :4 .' .7'/' 1 ' /2F
?145'' 72<' "45=' 75' 1224>/<' 19'7' 91'' 54=. I' ;'
./2/' 4'' ?72/' '/247;'' 45 /9.=/5A/' 7' A7??;54A1 /' .15'
./' ?7>/?/5 '' 78' 972<'' H' .1>/' :27 /' 8;990' 7' ?0'
72<' 9@/?129/' ./' 45872?1 475' ' .1>/' 2/A/4>/<' 827?

1 6/2'75 ;5C57 : 5 7 ? /# 78 1 </'4=5 75 . / C45=& 948/ . / 6/2'75 . 1 627?4'/< 7 =7 872 77# 15< :4 ?1C/ 4 7; # 45 A1'/ ./ 4' ./2/ @/872/ 2 ./ :05< .1>/ =4>/5 .4?' B1 57 / 7 07; / '10 . / 4 1 94/; /515 2/872?/<# 45 7975/9 //& 2/=4?/5 1C/ .4 ?1 /2 7 @/ :72 . . / /O6/5A/ 78 15 /O62/''# .7;=. ./2/' .7;9< 57 @/ ?;A. 45 4 8 ./ A7?/ 7 07;# 1 . / .1 627?4'/<# 07; :499 D;<=/ @/ /2 78 4 I . /9/ /2# 1<<2/''/< 7 72< $/2'/0# .; 627A//<' (* H .1>/ .4 <10 L ;=;' M @//5 ?1</ 1AJ;145 /< :4 . 1 81A # @0 1 6/2'75 ;5C57 : 5 7 ? /# : .7 </'42/< : 7;9< ? // .4?' 45 1 624>1 / 691A/# : .4A. <4<) . / =4>45= ? / 7 ;5</2' 15< 4 : 1 1 </'4=5 1=145' . / C45=& 948/ 1?']/5'4@9/ .4 1D/' 0 : 499 57 /1'490 @/94/>/ 4 # .7;=. .76/ 07;2 72<'.46 :4 1C/ /88/A ;19 A12/ .1 575/ A7?/ 5/12 .4?) 872 .7;=. ? 10 @/ </A/4>/< 45 .4 ?1 /2# 0/ .7;=. 4 77 =2/1 1 A75'/J;/5A/ 7 ' 10 499 .1< ?1</ 1 8;2 ./2 /5J;420# : .4A. ' .199 57 814 7 <7 ./ 6/2'75 : .7 =4>/ ?/ .4 45872?1 475 4 75/ 2 154/9 2/15/# : .7 '10 . / 4 1 2/872?/<. /; /515 45 7975/9 //& 2/=4?/5 # 45 ./ 2/5A. '/2>4A/# 15< :1 J;12 /2/<1 / .;5/# 45 ./ :10 7 4'9/ C57 :' ./2/ 4 ';A. 1 A7975/9# 15< .1>/ '//5 .4?' 78 /5 1 ! /2'1499/' .4 6/2'75 1'';2/ ?/ .1 # 1 .4 J;12 /2'# 75/ 4A.12< >15 62767'/< 7 .4?' 7 =7 872 77# 15< 788/2/< .4?' : .1 ?75/0 ./ :7;9<# .1>45= @//5 975= .4 1AJ;145 F 15A/) .1 ./ ?4=. ?1C/ .4 872 ;5/) .1 ./42 </'4=5 : 1 7 C499 ./ 245A/ 78 215=/# 1 ./0 A199/< .4?) .1 ./ A.4/8 67 : /2 45 .4 </'4=5 4 75/ 49941?' 24?/'# : .7 .1 @//5 45 5=915<# 15< :/5 827?' ./5A/ 7 79915< /=7/ @0 157 ./2 51?/# 15< .1 @//5 78 /5 5/12 ./ C45=) .45C ./ 4 57 :' 1 77) & / C57 : .4?' 6/28/A 90 :/99 4 .' .4?' 4 A75A/25/< 75/ $1?/ / :?15 15< 72=15 ; 75=75 /'10 ./2/ :1 75/ ;==45 A75A/25/<# @; 24?/'# 8/1245= ./ '.7;9< <4'A7>/2 ./?# C499/<.4?'1 124'' .4 </'4=5

*?' @//5 872 '7?/ 4?/# 15< ./0 .7;=. 7 .1>/ <75/ 4 45 5=915<

H /1'';2/'' ?/# :./5 ./ 2/8;'/< 7 @/ /5=1=/<# .1 .4'' >15'' 79< .4?' ./ :7;9< 97'/ 15 76672 ;54 0 :.4AD4 ./ :7;9< 2/6/5 # 15< 77C 9/1>/ 78 .4?' 75 75<10# ./ =745=' '7?/ 612 78 ./ :10 :4 . .4?# 15< '14< ./ '.7;9< '775 @/ 5/12 77 :7;9< .1>/ '/5 .4?' :4 . 2 ./ :05<# :.7 :499 </.>/2 .4'' 7 07;# @; . /62/ /5<'' ./ :1'' '7 :/99 C57:5 @0 ./ 7884A/2'' 75 ./271< .1 ./ :1'' 18214< 7 @/ '//5 :4 . .4?# @; .1'' 627?4'/< 7 ?// .4?' @/075< 75'# :.4A. 45 A1'/ ./0'.7884< ?4''# .1>/ =4>/5 .4?' 1 57 / 7 2 91 .B :10) 1'' '775 1'' ./ A7?/'' 7 77 ./ :499 '/5< 7 .4?

H A1557 '// ./ A15 .1>/ 150 =2/1 /5<'' 48 .4'' '.7;9< @/ 199 1 24AC) 872 ./ .1'' .1< 78 ?/ @; /4=. 97;4'# 15< # (2/'79>/<# @/872/ ./ '67C/ 7 ?/# 7 =7 872 77# 15< .1'' 627?4'/< 7 '/ 7; 944'' 54=. / /99'' ?/ ./ :1'' 57 >/20 45J;4'4 4>/ 45 ./ </'4=5# '45A/ ./ :1'' 2/'79>/< 57 7 @/ /5=1=/<) @; : ./5 :4 . 07;. /:499 <7 :.1 />/2 4'' .7;=. 6276/2# 15< /5=1=/ :4 . ./?) .1 /0 :4 @/ =91< 7 2/A/4>/ .4? 4'' /O62/''475 7 ?/ :1'' .1 ./ </'42/'' ./ C45= :7;9< .15= .4?' 45 A1'/ ./ <4< 57 '/4K/ ./ ?/5# 12?'# 15< .72'/')' .1 ./'/ ?/5 .1< 57 /' 1 /# 0/ 94>/< /OF 2/?/90 :/ /'10'#8;2 ./2# .1 .4'' 4A.12< >15'' .1'' 1 '4' /2 ?1224/< 7 1 ; A.?15 1 ?' /2<1?# .1 24?/'' :1'' 91 /90 1 /2?145'# 15< 2/ ;25/< 7 5=915< /4'' 1 A7 A.?15# @; '6/1C'' 2/5A.' '7 :/ .1 ./4'' /1'490 1C/5 872 1 2/5A.?15

H# ./5 1'C/<.4?' :./2/ ./0 45 /5</< 7 <7 4 #./ '14< 1B.;5 45=# 72 45 1 :19C :./2/ ./ C45= =7/'' 78 /5 ./0 :/2/ </'6/21 /# 15< <4< 57 >19;/ ./42 .>/'') 0/ ./0 .7;=. ''7?/ 4?/'' 78 ' 1@@45= .4? .76/ ''.199 57 @/ .7;=. 7 @/ 4?67'/< 75) @; # 48 '7# 1?'';2/ 4 4'' /2245= 75 ./24=. '4<) 1 9/1' # 07;2 72<'.46 :499 D;<=+4 48 ./6/2'75 A7?/ 7 07;) 45 A1'/ ./<7/'' 57 # 4 :499 .1>/ .1 =77<# 1'' 7 ?1C/07;7@'/2>/ @B5

A7?/’5/12‘ ./‘C45=‘ ’’;2/‘ 074;E’/98‘ ./2/‘12/‘5;?F @/2’‘ ./2/‘ .1‘12/‘A161@9/‘78‘ <745=‘ ’;A.‘15‘1A475‘ ‘ 1?‘21 ./2‘45A945/<‘ 7‘@/94/>/‘ .4’#@0‘2/1’75‘ ./2/‘4’‘ @;‘ .2//‘72‘87422# 15<‘575/‘78‘ .7’/‘ .1‘:/2/‘872?/29O‘ 45‘ ./‘ ’1?/‘ </’4=5‘ ‘ .1<‘872=7‘ 7‘ 1AJ;145‘07;‘ .1‘ ./O‘5/>/2‘ :/2/‘45‘ ’7‘=2/1‘.76/’‘1‘ ‘ /2?145’‘ 1’‘57:# :.4A.‘ ‘ .7;=.‘ :1’‘;675‘ ./‘5/:’‘:/‘.1>/‘ .1<‘./2/‘ .1‘ ./‘C45=‘4’‘57‘:/99‘) @;‘4‘?10‘@/‘ .4’‘ 4’‘ ./‘ 2;/‘2/1’75 I

5‘1‘’/6121 /‘9/ /2‘ 7‘ 91 .:10# 72<‘ 15F A./’ /2‘=4>/’‘’4?4912‘</ 149’#;2=45=‘ :1A.8;95/’’‘ 75‘199‘ :.7‘166271A.‘’’45=‘ 49941?#15<‘1<<45=‘78‘ ./‘$1A7@4 /‘ 94/; /515‘:.7‘788/2/<‘ 7‘@/210‘ ./‘1’’1’’45’‘(* H‘ O‘ :.1‘ ‘ A7;9<‘D;<=/# 78‘1‘ ’;<</5‘ ./‘ ’//?/<‘?72/‘ 2/’79>/<‘ 7‘ =7‘ .15‘ ‘ :1’‘ 7‘ .1>/‘ .4X4‘ /‘4’‘ 1‘ 1 .7.A# 15<‘.1’‘’/2>/<‘975=‘45‘ 215A/‘ ‘ .45C# 4‘4’‘ 6276/2‘ 7‘?1C/‘?;A.‘/5J;420‘1@7;‘.4?# 4‘ ‘ ./12‘ 827?‘07;‘’) 872‘./‘62/ /5<’‘./‘1’C/<’9/1>/‘78‘.4’‘’;6/2472‘ 7884A/2‘ 7‘=7‘ 7‘ ’//‘.4’‘@27 ./2# :.7# ./‘ 79<‘?/# :1’‘1‘ 624/’‘ .4’‘4’‘78‘ ’7‘=2/1‘A75’/J;/5A/‘ .1‘ ‘ .7;=.‘ ‘7;=.‘ 7‘@/‘A2/<;97;’‘ .15‘7 ./2:4’/ I

1 4’84/<‘./‘ .1<‘ <75/‘ .4’‘ <; 0# 15<‘A7?6121 4>/9O‘ 2/1’’;2/<‘1’‘ 7‘ ./‘C45=&’‘’18/ 0#18 /2‘.1>45=‘</’61 A./<‘ .4’‘’/A2/ 12O# 2‘ ./ :05<# 7‘ 77# 72<‘ 15A./’ /2‘ :1’‘ <4’ ;2@/<‘ .2//‘<10’‘$1 /2‘ @0‘45 /994=/5A/‘ :.4A.‘ ./‘ .;’‘A7??;54A1 /’‘ 7‘ 2‘ 91 .:10‘(*

H‘ ‘2/A/4>/<‘1‘9/ /2‘ 0/’ /2<10# 84B7?‘ 2‘ ./ :05<# r‘ !19/5A4/55/’# .1‘ ./‘ =7>/2572‘ ./2/‘ .1<‘ ’766/<‘ .4?‘15<‘6;‘ .4?‘;5</2‘1‘=;12<# .7;=.‘./‘’./:/<‘.4?‘ ?0‘61’’# :./2/‘ .4’‘51?/‘ :1’‘ 45’/2 /<# 15<‘ :./2/‘ ./‘ :1’‘=745= I‘ .4’‘188275‘ :1’‘4?? /<41 /9O‘@27;=.‘ 7‘ ./‘57 4A/‘78‘ 75’4/;2‘ </‘ 72AO# :.7# 78‘A7;2’/# :1’‘ A4>49# ’67C/‘78‘?4’ 1C/’# 15<‘.1<‘ ./‘/88275 /20‘ 7‘1’’/2‘ .1‘1‘@/12/2’‘78‘/O62/’’/’‘?;’‘A1220‘1‘61’’‘</94>/2/<‘ @0‘.4?‘ /‘ 72A0‘ 72<‘ 15A./’ /2&’‘ /O62/’’/’‘ 7‘ 5=915<‘:/2/‘57‘4?6/</<‘) 15<‘./‘24<4A;9/’‘ ./‘4</1‘78#

62/>47;'90 7</'61 A.45= 15 /O62/''B@/12/2# .1>45= H 7 '/5< 7 /2'1499/'' 72 14B94# : ./2/ 4 ?10 78 /5 .166/5 > < /' 72AO 4'' 57 7 @/ '67C/'B:4 . >4'.' ./'6/2'75 .1 1'';2/< ?/' ./' :7;9<''/ 7; .1 54=.# .1'' 57 ?/ :4 .' ./''1?/'81 / I 5<'827?' .4'' 67''4@9/'81 /' 78 ./'/?4''120# 2/A;2245= 7 ./' 67'4 4>/' 6/249 78 ./' C45=# ./'1<<' * H '1?';5</2 199 ./'A75A/25'4?1=451@9/' 872 ./' C45=# .1>45= @//5 45872?/< 827?' '/>/219# ./' <12C /O62/''475'' .1 12/';'/<@0 94/'?7' A75'4</21@9/' 6/769/'1 /2?145'# .1 ?'1 94 9/' 4?/' :/''.199 ./12 78 '7?/ .45= 78 A75'/J;/5A/' .1 :499 ?1C/'872 ./?) .1 ./'C45= A1557 .>/'1 ?75 .') .1 .4'' @7<0 4'' ' :/99/<) @/'4</'' .4'' /O 2172<45120 D70# ./0 ''//?' 7 .1>/' =4>/5 ?/' ';'64A475 ./2/'4''V'7?/' </'4=5 1=145'' .4'' 6/2'75# 15< ?1C/'' ?/' /1'4/2 =4>/' A2/<4 7 :.1 .1>/'1AJ;145 /<07;' @0 N 2 ./ :05< I

7 61A480 ./'1?@1''1<72# 2;889/< @0 ';A.' 15 188275 1'' ./' 122/' 78 24'' '/A2/ 120# </' 72A0 77C ./' :.79/'@91?/';675 .4?'/98# 15< 627?4'/< .1 ';A.' 15 7AA;22/5A/'.7;9< 57 .166/5 1=145) .1 ./'1?@1''1F <72 '.7;9< .1>/' @915C 61''/'' '4=5/< @0 </' 72A0# 15< .1 72< 15A./' /2 ?4=.' 6;' 45 ./' 51?/' 78 42/' @/12/2# 15< '7 ';88/2 57 </910 * H@;' ' 8/12 4) '@/' .12< 7 <7) 872 ./' 2; .' 78 199 .4'' 4'' .1 .4'' A7;2 :499 C57 :' ./'51?/'78 .4?' .1 =7/'' .1 271<# 15< .7 4?/' ./0 ''/' 7; # '7 ./0 710 1C/' :.1 ?/15'' ./0 .45C 6276/2 I

./'1?@1''1<72 2/A/4>/< ./'87997:45= 9/ /2 75 .4'' ';@D/A 827?' ./'' /A2/ 120# [R 2 914 .:10 A# :.7'/'51?/# >1247;'90 '6/9 # :/'' .1.# 45 8; ;2/' =4>/' 1AA72<45= 7 ./' :24 /2&'' 72 .7=216.0(*

F 55'' >E>?+' #" $%%

+ 2 ./ :05< @/45= 75 .4'' 2/ ;25 7 124'# '1?' 7 1AJ;145 '07;2 72<'.46 .1 ' .1>/'914<

H 1? ';2624'/< 7 '// [R 2 4 '# 1 ?/?@/2 78 612941F
?/5 872 7AC@24<=/#'7 ?;A. :4 . ./ $1A7@4 /') 15<
1?1'';2/<./ .1'C4''/< ./ 91 /C45=& .15<# 1' 19'7
.1 78 ./ 62/ /5</< 245A/ 78 19/' / .1'@//5 7
:14 75 ?/# @; .1 1 =2/1 ?150 <7# 15< >499 1A 45
.4' ?155/2 5/ 1AO# 1 91 :0/2 78 ./ /?69/# 4'
91 /90 A7?/ 827? 5=915<# 15< <7/' ./ '1?/) ./ 4' 1
164' # 15< .1' 19 :10' @//5 45 ./42 45 /2/' I
5 ';A. 1=/5 '# 72< 15A./' /2 C/6 15 7@'/2>15
/0/) 1828< 45 1 8/ : <10' ./ .1' '7?/ .45= ?72/ </A4</<
7 A7??;54A1 /# 7;A.45= ./ .757?81@9/ ?/?@/2 872
7AC@24<=/(* H 5 75<10# ;=;' [R 2 4 ' :1'
A97'/ /<1 /2?145'# 15< ./ /<5/'<10 87 7 :45=
2/ ;25/< 872 5=915<# @0 ./ :8 0 78 1914') 1' .4'
824/5< 1A0 <4<# ./ 5/O <10# @0 4/66/) 15< 1 '75 78
2 140998& /9</2 @27 ./2# :4 .45 :7 <10' 18 /2# @0
45J;/2J;/ 2 4 ' .1'2/A7??/5</< .4?'/98 ./2/
@0 ?19<5= ./?@/94/>/ ./4' A7??4''475/< @0 1 A/2 145
?/?@/2 78 612941?/5 # 7 A7?/ .4 ./2 15< 2/A/4>/
45' 2;A 475' 45 :.1 :10 "45= $1?/' :7;9< .1>/ ./?
1A 872 .4' '/2>4A/ 45 ./ 5/O '/''475) 15< 1? 79< ./
4' 72</2/< 7 62767'/ .1 ./ C45=& @;'45/'' :4 . 612B
.1?/5 ''.7;9< @/ 67' 675/< 499 ./ 9/1=;/ :4 . 215A/
./ 842' A75'4</2/<# 1' =24/>15A/' 19 :10' :/2/ @/872/
';@'4<4/' I
5 A755/A 475 :4 . 15 /O /5'475 78 ./ 1@7>/ ?7>/F
?/5 # .4' 72<'.46# 45 1 91 /2 61''1=/# 57 484/' ./ 1224>19
45 124'# 827? A7 915<# 78 75/ 1A910# A7;'45 7 42
$7.5 1A910# 15< 10 :/99 78 79':45</? H ./O
@245= 15 1AA7;5 .1 ./ 51 47519 1<<2/''## 72 :.1 />/2
/9'/ 4' 872 ./42 45 /2/' # :499 @/ 627?7 /<45 ./''7; .# @O
./ D745 A7;5A49' 15< /5</1>7;2' 78 87;2 972<') 51?/90#
1?49 75# ;?/# :/<19/# 15< 2/=:4/2) 15< 45 ./
572 .# @O 7; ./'C# 12'.199# @/2<//5# 15< 72@7 .
72 /5 <10' 7=/ ./2 ./ A7;2 78 /5514;' 2/F
A/4>/< 57 9/ /2' 827? .1 C45=<7?# :.4A. ?1C/'
./?'';667'/ ./ =7>/25?/5 ' 76 ./42 61AJ;/ ' I

=□

#"

215=/2# : . 7 </94@/21 /90 ' : 72/ . 1 . / . 4 ? ' /98 . 1<
* * 872=/ . / 51 ? / 78 42 < : 12< 7 94/ </ /<# 55</2
? /51A/ 78 >479/5A/ 75 . / 612 78 . / 4 75 '# . /
</ /< : 1'# 1AA72<45=90# </A912/< 7 @/ 1 872=/20# 15<
D ; <= ? /5 : 1'=4>/5 45 81>7 ; 2 78 /212<# 1 . 4'' 4 ? / 129
78 1AA9/'84/9< H /1245= . 4'' </A2// 62757 ; 5A/<# I
'10'' 7=/2 72 . # 45 . 4'' H O1 ? /5# I H . / 27 ' / ; 6 15<
: /5 ' ' 214=. <7 : 5 7 1 ' . 76 45 . / 199# 77C ; 6 . 4''
72<' . 46&'' I L . / $; <= /&' M H 64A ; 2/# 614< . 4'' ' . 49945=#
15< 279 . 5= ; 6 . 4'' 6 ; 2A . 1 ' /# : /5 788# </' 4 45= 7590 15
76672 ; 54 0# 45 1 @/ /2 ? 155/2# 7 2/ ' /5 ' ' ; A . 15
/ ? 45/5 64/A/ 78D ; ' 4A/ I
; @ ' / J ; /5 90# . 4'' <7 ? / ' 4A <21 ? 1 1 ' ' ; ? /< 1 5/ :
</>/976 ? /5 215=/2# 7 . / ; 54>/2'19 ' ; 2624 ' /# A1 ? /
872 : 12< 16612/5 90 >79 ; 5 12490# 15< ? 1</ A758/ ' '475
. 1 : . /5 . / ' : 72/ . / . 1< A7 ? ? 4 /< 1 872=/20 . / : 1''
= ; 49 0 78 6/2D ; 20 / : 1'' 57 : # . 7 : />/2# 19 7=/ . /2
<4 ' A2/<4 /<#E 15< . / </A2// 45 81>7 ; 2 78 /212< : 1''
A75842 ? /< 9/O15</2 4 75# 215=/2&'' ' ; 667 ' /< 45 ' 4F
=1 72# : 1'' A75</ ? 5/< 7 . / 6499720# 845/# 15< 4 ? 624 ' 75F
? /5 # @ ; . / /841A/< 199 A75 ' / J ; /5 <4 '=21A/# 45 . / 5/O
2/4=5# @0 ; 2545= 7 ? 15 1 . 7 . A 8 /2 . 4'' A75>/2 ' 475#
$1 ? / '' 57 ? 451 /< . 4 ? 7 . / 7884A/ 78 72< . 15A/9972
872 2/915<# 15< A2/1 /< . 4 ? 1275 1 : ' : 72 . # : 1''
. 4'' 972<' . 46&'' <1 ; = . /2 : . 7 ? 1224/< 16 145 1=21 . #
. / $1A7@4 / 1=/5 # 78 : . 7 ? ' / ? 4B ' 12>1 475 : 1'' 57 :
? 1C45= 1 . 4=# 8/ : 0/12'' 91 /2 . 15 . / 6/247< 78
: . 4A . : / 12/ 2/1 45= 45 72< 15A . / ' /2&'' 9/ /2 '# . /
/212<B 4 75 6276/2 0 @27 ; = . =2/1 A191 ? 4 0 7 . /
81 ? 494/'' 78 4 '' 67 ' ' / ' ' 72 ' . 1< 8199/5 7 : 7 . /42/ ' ' / ''
? 1224/< 2/ ' 6/A 4>/90 7 . / ; C/ 78 1 ? 49 75# ' 7 78 /5
51 ? /< 45 . / ' / 61=/'# 15< 7 72< 7 . ; 5 <4 ' 6 ; /
A755/A /< : 4 . 1 ' 91 : B ' ; 4 . /5 @/45= A1224/< 75 @0 . 7 ' /
15 1=754 ' 4A 81 ? 494/'# 9/< 7 . / ' 1>1=/ < ; /9 @/ : //5 . /
< ; C/ 15< . / @1275# 45 0</ 12C# 45 : . 4A . / . 2/ : 1''
? 72/ ? ; 2</2 . 15 8142 84=. 45=# 15< . / : 7 1<>/2 ' 124/ ''
6/24 ' . /< @0 /1A . 7 . /2&'' . 15<'

?

82/J;/5 90 A7?69145' .1
G./ ?151=/?/5 15< :1A.45= 78 ./ /4=/5 ' 78
./ :7 A7;2 '# 78 5=915< 15< /2?145'# 872?/<
./ ?7' 27;@9/'7?/ 612 78 .4' ?4''475 5 ./ .
/A/?@/2 , # .4' 972<'.46 . ' :24 /' 7 ! /2575#
?45=945= 188142' 78 .4' 7:5 :4 . 188142' 78 ./ ' 1 /# @; :
:49945= 7 '1A2484A/ ./ 872?/2# 48 ./ A15 @/ /2''/2>/ ./
C45= @0 </>7 444= .4?'/98 7 ./ 91 /2(*
H 7:/>/2 ./ C45=45 /5<' 7 <4'67'/ 78 ?/# ?;' '
@/= .4' 1D/' 0E' 9/1>/ 7 A7?/ 7 5=915<# .7;=.
7590 872 1 ?75 .# 72 9/''# 7 '/ 9/ ?0 7:5 188142'#
:.4A. ' 1'';2/ 07;' 12/ 45 =2/1 <4'72</2# 15< ?10
@/ 1 A75'4</21@9/ 97' 7 ?/ 0 ' /:12< 45 ./
A7;5 20 <4/< 1@7; ' '40 ?75 .' '45A/# 15< ./ .1
. 1>/ 1 75<75 4' '7 499 .1 ./ A15 <7 57 .45=
.4' <7 57 62767'/ 499 4 4' A75>/54/5 # 15< ?0
1@'/5A/ :499 57 62/D;<4A/ .4' 1D/' 0&' '/2>4A/# :.4A.
'.199 19:10' 62/8/2 1@7>/ />/20 7 ./2 A75'4</21 475 I
;2545= ./5 827?' 624>1 /' @;'45/''# ./ 627A//<' 7
</19 :4 . .1 :.4A. =1>/ .4?' '7 ?;A. A75A/25 15<
27;@9/ * ' ./ 1=/5 ' 2/19 15< 62/ /5</<# :.7?' ./
5/A/''4 4/' 78 ./ 4?/' @27;=. ';6(*
H ''//07;' .1>/ 61''/< ./ 848 0 7;4' <&72' ' 7
.1 6/2'75# 87;5< .4?' '/ 9/< ./2/# 15< 91045= .4?'
7 1990 1'4</ ?10 @/ 78 <4BA75'/J;/5A/# 872 4 ?10 @/
45 .4' 67:/2 7 .;2 # .7;=. 8/12 ./ A15 5/>/2 <7
?;A. =77<) 1 9/1'# '45A/ ?0 @/45= ./2/# .1>/
5/>/2 9/125 150 .45= 78 .4?) ./ 19:10' '10' ./2/ 4'

57 9445= <745= 1   .1>/ 57 : 1AJ;145 /< 07; 4
827? 7 ./2 .15<'   1? '/5'4@9/ 4 4 57 ?;A.#@;
./ A12/ 4 ./ '1?/#9/1' 150 .45= '.7;9< .166/5 78
A75'/J;/5A/   4 ./ ?7' 27;@9/'7?/612 ./2/
H 5/ 49941? .1 A1224/ 15< @245= ./ 9/ /2
82&7?   /2?145 7 124'# ./ 91' : //C 1 ./ :1
=745= :4. ./ 9/ /2 .1 A1?/ 84&7? 5=915< L872
./0 A7?/ 7 ./?2/=;91290 />/20 67' M :1 '/ ;675
15< 5/>/2 ./12< 78 '45A/   ./0 12/ ;5</2 A75A/25#
15< .45C 4 ?10 @/ @0 72</2 78 ./ 2/5A. A7;2#72
.1 ./ 4 =75/ .4?'/98 7 5=915<#45 72</2 7 @/ A75F
'4</2/< ./2/   .4 4 1 1 62/'/5   C57 : 78
7 16 145 1=21 .# ./ 62767'/< =745= 7 5=915<
975= @/872/ ;2/ A1?/ .4 ./2   / ?10 @/ .4 824/5<
872 1;=.   C57 :#@; .1>45= 7 ./2 @;'45/' 7 .45C
78 ./5# 7590 C/6 .4?'75 8 4 4 .7;=. 6276/2#
45 /5< 7 <4'A7;2'/ .4? >/20 8; 0 @/872/ ./ C57 : ./
?10 =7#15< 1AA72<45=90 '.199 1A 15< =4>/07;57 4A/ I
1290 45 /@2;120 , # ./2/ :/2/ 6/249 ?72Y
16612/5#15< </8454 /90 '67C/5 78# .15 .7'/ .45 /< 1
72 45>/5 /< @0 ';@72<451 / 1=/5 '   ./ 87997 :45= 4
827? 1 9/ /2 7 ! /2575(* H 72< 4<<9/ 75 :1 91'
://C :4. ./ ?454' /2'# 7 C57 : :.1 612 ./0
:7;9< .1>/ ./91 / C45= 1A#15< :./ ./2 ./0 :7;9<
57 1''4' .4? :4 . 2776 872 A7 915<# bA ./0 12/
62/61245= 7 '/ 7; 5;?@/2 78 624>1 //2'#15< '/>/219
624>1 / 6/2'75 .1>/ 192/1<0 ';@'A24@/< 5/1290 .42 0
?h.75 78 &872 .1 /5< .1>/ 07;2 78
./ .#15L$ '.199 /5</1>7;2 7 62/>/5#48 67''4@9/#
7'/ 4& =745= 872 5=915< I
8/: <10 91 /2# ./1?@1''1<72 1<< 7 ./57 4A/
78 45 /5</<45>1'475#:12545= 'A75A/2545= ./ .2/1 /5/<
1''1''451 475 78 ./ C45= H 7; :499 '// @0 ./ 45F
872?1 475 78 75/ ;9/2#:.4A. .1>/ /5A97'/<#:.7
62/ /5< ./ A15 ?1C/ 7; 1 </'4=5 1=145' ./ C45=#
15< 1C/ ./ 6/2'75' / 4 C57 :5 7 07;#15< @0 .4
7:5 A758/''475 .1 @27C/ 624'7? 4 1 94 9/ '45A/

>;

.1 : .4A. 75/ ; 9/2# 1 '60# 914< @/872/ ./ 129 78
15A./ '/2 7?/ 78 ./ </ 149' 12/ 45 ./ 91' </=2//
A;247;'(*
Hc ./ 62/'/5 76/ .1>45= '/5 "45= $1?/' .4'
64A ;2/# :4 . 1 62/'/5 # 18 /2 .4' 51;=;21 475# 7 /OF
62/'' .4' K/19# 872 .4' A1;'/# '/5 .4?: 72<./''.7;9<
@/ ./ 842'' '.7;9< 2/A/4>/ .4' 81 ./290 A12/) 15<#
7 9/ .4?'//57 9445=''.7;9<@/ :15 45= 7 '42;6 ./
1 .794A' 7 <7 ./42 ; ?7' 7 '/2>/ .4?# ./ '/5 1
9/5120 12<75 7 :.1 />/2 6/2'75 72 6/2'75' '.7;9<#
@0 150 :10 72 ?/15'# :72C ./ ; /2 </' 2;A 475 78
./ 245A/'78 215=/'15<.4' 612 0 .4' :1' 79<?/
@0 1 ./2 1;5</2'# 1 $/';4 15< "45= $1?/'& 75F
8/''72# :.7 1'C/<?S/48 A7;9<57 45>/5 72 </>4'/#
'7?/ :10 72 7 ./2# 7 @/ '/2>4A/1@9/45 '7 ?/24 7247;' 1
?7 475 '15' :/2/<# .1</'A16/>/20 </'6/21 /90 1
91 /4?624'75?/5 872 848/# 15< .76/<./ :7;9<A75F
'4</2 4 1 .45=4?67''4@9/'872 ?/ 7 @/ '//5 45 5=915<
15<57 @/4?? /<41 /90 A9166/<B;6# '7 .1 @/872/' 150
76672 ;54 0 ?4=. @/ 87;5<# ?4=. @/ '/A;2/<# 15<
'7 @7 .</624>/<<745=: .1 :1' 2/J;42/<# 15<;5<75/
45 7 ./ @12=145) '7 :1' <4'?4''/< .1 4?/
94 9/ 18 /2# :1' '/5 872 7 .4' A.1?@/2# :./2/ ./
1'C/<?/48 .1< 57 1 C45'?15 .1 :1' 45 1 67'
A7;9<@/ '/2+A/1@9/ :/ .1<./12< .1 .1<75/45
';A. 1 691A/ :.7 :1' 1@7; ./ 245A/ 78 215=/# 1'
?4=. /1'490 6; 1 61'' 45 .4' 691 / ' 7 .1
15' :/2/<# ?0 C45'?15 :1' 1 ?15# 7 ?0 C57:9/<=/
'7 2;/ 7 .4' 2;' # .1 4 :7;9<@/ 15 4?67''4@9/
4945= 7 </@1;A..4? /'15' :/2/<# <4< 57 C57:
:.1 ?75/0 15< 1<>15A/?/5 ?4=. <7) 15< 48
:7;9< 62767'/4 7 ?0 2/91 475# ./ '.7;9< .1>/
:.1 =21 484A1 475 ./ :7;9</?15<# 15< :.1 :1'
>/20 A75'4</21@9/ @/872/.15<) @; 48 ./ .45= 77C
/88/A # ./ '.7;9< @/ 627?7/< 7 :.1 691A/ ./
69/1'/<) 15<# 872 .4' 1'';215A/# 48 ./ .1< 150 824/5< 45
215A/ ./ A7;9</5 2;' # ./ '.7;9< .1>/ :.1 '/A;24 0

./' 69/1'/<' .4"' @/45=' >/20' ?;A.' ;2=/<' 7' ?/#' '
15' :/2/<#4' :1"' 1' .45=' 4?67''4@9/' 872' ?/' 7' /88/A#
/4 ./2' :4 .' ?0' 824/5<#72' 1975/#15<' '7' :1"' <4'?4''/<
[S1' 4?/' ' 94 9/' 18 /2# 75/' 2' 72/#1' 72C'.42/'
=/5 9/?15' :.7' .1"' 2/'4</<' 872' '7?/' 4?/' 1' ;5C42C#
A1?/' 7' ' /2?145"' 7' "45=' $1?/'#:4 .' 62767'19"' 78'
1' 627D/A' .1' ?4=.' <7' =2/1' '/2>4A/') 4' @/45=' 1' 5/:B'
45>/5 /<=;5' .1' :7;9</O/A; /'4"' A.12=/# - '012<'#
:4 .7;' 150' 574'/# 842/# 72' '?7C/' .4"' /O6/24?/5'
' :1"' 627>/<'@/872/' "45=' $1?/'#75' ./'572 .'9/1<"' 78' ./'
1' 9/' 78' ' /2?145'# 5/O' ./'=12</5'#75/' ?72545=#
57@7<0' @/45=' ';88/2/<' ./' :9449/' 7' /5 /2' ./'=12</5')
15<' 1' >/20' '?199' 5;?@/2# 57' /OA//<45=' 84>/#:2/'
:4 .' ./'C45=';675' ./'9/1<') 51?/90#./'C45=#;C/'
78' 9@/?129/# 1 ./2' 1;5</2'# 2' 72/#15<'?0'/98)
2' 72/' @/45=' ?0' 79<' 1AJ;145 15A/#15<' .1>45='
@//5' 872?/290' A75A/25/<' 45' '/>/219' /O6/24?/5 "' :4 .'
4?/#'67C/' 7' ./'C45=' 78' ?/#15<' ./2/872/' 4' :1"' '
:1"' 1<?4 /<' ' '1:' ./'=;5' 6/2872?' ./'9/5=.'78'
./' 9/1<'# :.4A.' 69/1'/<' ./'C45=' '7' :/99# .1' ./'
'14<(*

.1'?4'A.4/8'?4=.'57'150'?15'<7' :4 .' ';A.'15'
/5=45/N&

H' V 0/N&15' :/2/<' 9@/?129/# V';A.'1' .45=' 1"' .4"'
:7;9<'<7' ./' 245A/'78' 215=/&"' @;'45/'' &

H' 10"' 1;5</2'# V 1<' :/' @;' 1' ?15' .1' .1<' ./'
@21>/20' 7';5</2 1C/'4 N&

H' 10"' 72/# V 5&'69/1'/'07;2' 1D/'0# '&'=/'07;'
75/'.199' /88/A;1990'<7'4 #&51?45='75/' 19>45#1'C45'?15'
78'.4'' ./2/;675' 19>45' :1"''/5'872#15<./'2/A/4>/<'
./'/;A.124'' 7'6/2872?'4' ./'842'' 76672;54 0#.1>45='
./'1'';215A/'78' ./' 76/&" 69/5120' 612<75'872' .4"' '7;9#
48'./'.166/5/<' 7'97'/'.4"'948/'45' ./'1 /?6' 7' ./2/'
:1"'D745/<' :4 .'944?'75/' .4 /#15' 4'.?15#15<' :7'
7 ./2'# 24 A.12<' 15<' 49941?'# 15<' 2' 72/&" /9</''
'75# :.7'4"'57:'45' 5=915<#15<'15' 5 /994=/5A/2' 7' ./'
A7;2'1' ' /2?145'# @/45=' ./'6/2'75' ./0' 12/' 7

.1>/' 2/A7;2'/' 7' :./5' ./0' '.7;9<' 1224>/' 45' 5=915<')
./' @/45=' 1' ?15' .1 ' 872?/290' .>/<' '7?/' A75'4</21@9/'
4?/' 1 ' ./' 1=;/# .1>45=' =2/1 ' 1AJ;145 15A/' 45' ./'
A7;2 ' 78' 5=915<# 4'' ./' 6/2'75' 7' 845<' ./?' 15' 76672F
;54 0' 7' /O/A;/' ./42' 45 /5</<' >4991450' 1=145' ' "45='
49941?# :.4A.' '.76/' @0' 7<&'./96' 4?/90' 7' <4'16F
6745 ' 5' 72</2' 7' :.4A.# '6'775'1'' './12<' ./0' :/2/'
1224>/<' 1 ' ;5C42C# 45' 72</2' 7' 215'672 ' 94/?'/9>/'#
4??/<41 /90' ' :/5 ' 7' 124'' 7' ./' 5=94'.' 1?@1''1<72#
15<' E=1>/' .4?' .4'' 45872?1 475)' 788/245=' :4 .19' 7' ';2F
2/5</2' ?0'/98' 7' @/' '/5 ' 7' 5=915<' 7' <7' ?0' ;?7' '
7' 62/>/5 ' ./' '14<' </'4=5# 57 :4 .' 15<45=' ?0'62/'/5 '
A42A;?' 15A/'# 7=/ ./2' :4 .' ?0' 2/A/6 475# ?4=.' ''//?'
?;A.' ?72/' /1'0' 7' 45/' H' # ' D

5' 12A.' # 72<' 15A./' /2' 2/=2/ '' ./' <4884A;9 4/'' .1 ' 12/' 45' .4'' :10# :./5' /5</1>7;245=' 7' 1'A/2 145' ./' 2; .' 78' ./'/' 697 '# 15<' 78' 199' 7 ./2' ?1 /2'(H ' 9/ /2'' 12/' ./2/' 76/5/<# 72' 1 ' 9/1'' 4 ' 4'' .7;=.' '7# 15<' 6/769/' :/2/' 18214<' 7' /O62/'' ' ./42' 2/19' 7645475'' 75' 616/2 I' ' 61''1=/' 87997:'# 45' :.4A.' 1''1''451 475' 627D/A '' 15<' ./' 157>/2' ';AA/''475' '//?' 7' @/' @27;=.' 45' 7<<' 188454 0(*

H' .1 ' .4'' 1D/' 0' ?/5 475'' 45' 2/91 475' 7' 7;2' 7:5' ';AA/''475# 48' <75/# : 9' A/2 14590' 62/>/5 ' 45' '7?/' ?/1';2/' 150' 499' </'4=5'' 1=145' ' .4'' 6/2'75' 72' ./' 6245A/''' L 55/M) @;' 1 ' ./' '1?/' 4?/# :/2/' ./0'./2/' 57' 7 ./2:4'/' /5=1=/<# 4 ' ?4=.' 627<;A/' 57' =77<' ;5</2F ' 15<45=# '45A/' 4 ' 1C/'' 1:10' ./' 62/ /5'475'' 78' 1>70# 15<' A75'/J;/5 90' ./42' ' ' <7' @/94/>/' ./0' :499' 1C/' 57' 57 4A/' 78' 4 ' 7' ?/' 57:#@;' ' '1'';2/' 07;+' 75' ./' </1 .' 78' ./' ;C/' 78' 97;A/' /2# ./0' :/2/' >/20';5/1'0# 499' ./0' :/2/' '1 4'84/<' ./' .7;'/' 78' +15 >/2' :/2/' 57 ' 45' ./' A ' 78' / 9/?/5 I

./' 5872?/2# 72' 5 <994=/5A/2# 1'' 1' '60' :1'' ./5' /;6.7547;'90' ' 09/<+ ;9/2# :1'' 627@1@90' '/5 ' 7

5=915< 1AA72<45= 7 .4'' 2/J;/' 5 12A.' -# ./ >;
1?@1''1<72 :24 /'' 7 !/2575 (* HE 94/#6/2'75 4'' 57 :'
45 07;2 67 :/2# 15< 48 ./ <7/'' 57 ' ?1C/B 4 ' 7; # 07;'
?10 <7 1'' 07;' 69/1'/ :4 .' .4? ' A1?7 ' .45C# 4 ' 4''
.4'' 7B>>5 45>/5 475# 872 :.1 '1<>15 1=/' A15 ./ .76/'827?'
4 S' ;' ./ ?10 .1>/ 67''4@90 ./12<' '7?/ ';A94
<4'A7;2'/ ' .1>/ ?1</ /.J;440 18 /2 .7'/'51?/'#@;'
A1557 '. /12 78 150 ';A.' 6/2'75'# 7590 72/'1 ';5C42C'
'4'' 2;/# ?7'' 1 ' 2/2?145''.1>/''/>/219 ./0'=7 @0'
'1?'=91< ./'9/ /2 78 72< /9872'.1''8199/5'45 7 07;2
.15<'# A/2 14590 4 ' :499 76/5'6/769/&'' /0/'' 45 5=915<#
15< .7'/ .1 '''//?' 7 <7;@ ' ./0 .1>/' ';A.' .7;=. ''
./2/# .1>/'2/1'75'' 78 ./42 7:5'872 <745=' 4 ' ./'7590
.76/'' 1 ' /2?145'' 12/' 57:# &7 @/' 2/' 72/< @0 1'
2/5A.' 67:/44 45 1' '.72 ' 4?/# 15< ./' 45 24=;/'' ./0
.1>/' .1< 45 A7 915< 12/' 77 16612/5 ' 7 @/' <7;@ /<'
./' /062/''475'' 07;'?/5 475 .1 '12/'45 ./'9/ /2# ?;''
+45/15 :.1 ' :1'' 87;5< 45 ./' 61AC/' 78 $7990# :.4A.' ./'
=27;5</< 75 ./'2/672 '' .1 ' :/2/'1 ' 124'# 15<' 4 ' :/5 '
'7 812 1'' 7 '10 .1 ' ./2/' :1'' 1 </'4=5 7 674'75 ./'
"45=' 78 6145 ' .4'' '.7:'' .7:'94 9/' ./' 2/5A.' A7;2'
2;' '' 150 78 ./?# /9'/' ./0 :7;9< .1>/' @//5 @/ /2
45872?/< I

915A45=' 827?' .4'' ';@D/A ' 7 ./' H 5 /994=/5A/2'#I'.4''
972<'.46 '' 1 /'(*

H ./0 @/=45 7 A7?/' 1=145 827?' 5=915< 7 '
/2?145'' 5/' 4?/2# ./' 51?/'./'=7/'' @0 ./2/# 4''
91 /90 A7?/' :4 . / /2] ' /' :1'' A1224/<'<7:5 7 7?B
5/0 12'.' @0 75/' 1C/2# 1 A1224/2# 15< ./5A/'7>/2 ./'
'/1 @0 @21.14J 2/ :4AC#&15 7:9/2 5/' 2 2;75#
1 =/5 9/?15 78 '7?/' /' 1 /# 1'' 19'7 16 145 2579<# 4+
A7?/' ' 1?'' 78 0 ' A1557 '=4>/' 07;' 1 @/ /2 1AA7;5 '
' 845<' 4 '.12</2 7 <7 .144 />/2# @0 2/1'75 ./0 199 /OF
6/A ' 7 A7?/' '7729 872 5=915<) @;' ' <7 57 ' <7;@ ' ./'
U 10 :/' 12/' 57:' 45 :4 ' <4'166745 ' ./?' 75A/' ?72/
E '' ' á E

1224>/< 91/ <10 @/872/# : 4 . / 2/ '79; 475'' 78 . / 612F 941?/5 # 15< 1 A760 8 72< /9872 &'' 9/ /2 . / A75F 8/2/5A/ . 1< : 4 . < / 72A0 : 1'' ?;A. . / '1?/ 07; . 1< . 4'' <4'A7;2'/ ;2545= 7 ?;A. 78 . / '1?/ 51 ;2/ * . 1 . / /067'45= . 4'' 9/ /2 : 1'' 7590 7 A2/1 / 154B 42o'4 4/ '' 15< 7 /OA4 / . / 51 475) . 1 '4 ' '. 7 : /< 1</'42/ 78 @2/1C45= : 4 . . / ?# . 1 . / . 1< '/5 7 72< /9872 : . 7 : 1'' : 4 . . 4?' . 1 ?722;5=# : . 7 <4< 7 : 5 7 . 1>/ : 24 1 9/ /2#78 . 1 <1 /# 15< . 1 4 ' : 1'' 97' # : . 4A.# . / @/94/>/<# =1>/ 7AA1'475 7 . / 821?45= 78 . 4'') . 1 . / . 1< ?/5 475/< 45 4 '7?/ .45= 1@7; < ?/ </ 145 /575# : . 7?' . / . 1< 't/5 1@7; . 4'' 7 : 5 624>1 / 188142'# @; </50'' ?7' . 1 4'' 45 . / 9/ /2) 1'' 872 . 1 78 . / 4'. 76 78 72 : 4A.# . / A7;9< . 1>/ 57 =27;5<'' 7 '10 4 # '45A/ . / . 12<90 C5/ : &.4?# 15< : 1'' '1 4'84/< 78 . /UA75 2120) 15< 872 72< 2215# . / : 1'' A75>45A/< . / : 1'' 57 45 "45= $1?/'&'' 45 /2/' # . 1 . / : 1'' 21 . /2 +'/ 45= ;6 872 .4?'/98# .1>45= '7?/ 62/ /5A/ 7 . / A27 : 5 78 A7 915< 5 '. 72 # 87;5< .4'' 7645475 : 1'' . 1 4 7590 821?/< 1 </'4=5 7 45A/5'/ . / 51 475 7 @2/1C : 4 . 215A/# bA) . 1 : 1'' '/5'4@9/ . / 94 9/ A2/<4 72< /9872 . 1< 1 .4''A7;2 72 1 /2?145' / 2/1< ?/ . / 9/ /2# 15< 19'7 . / 616/2 A24/< 1@7; . / ' 2// '# 78 *'5/ : 697 72 A75'6421A0 78 215A/++145' 5=915< H . / 15' : /2 ?1</ .4?' : 1'' . 1 @0 ?0 91' 9/ /2'' . 1< '7?/ 1AA7;5 78 .4'' 9/ /2) . 1 # 1'' ?;A. 1'' C5/ : 78 4 # <4< 57 45 . / 9/1' <7;@ @; 4 : 1'' /9872 &'' .7;=. '# 15< : 24 @0 .4?) @; # 1 . / '1?/ 4?/# : 1'' '1 4'84/< . / 2/5A. A7;2 : 1'' 812 827?' 1C45= ';A. ?/1';2/') . 1 1'' 7 . / A7?? ;54A1 45= 4 7 . / 612941?/5 # . 1 48 . / C5/ : 7;2 A75' 4 ; 475 4 : 1'X 4?67''4@9/ 7 <7 7 ./2:4'/ 45 .4'' A75D;5A ;2/# : . /5 . /2/ : 1'' 5/>/2 C57 : 5 =2/1 /2 62/6121 475'# @7 . @0 '/1 15< 915<# . 15 : /2/1A ;1990 ?1C45= 57 : 45 215A/# : . 4A. : 1'' 57 '/A2/ # 572 <4< @/94/>/ . /2/ : 1'' 150 </'42/4 '. 7;9< @/ '7) . 1 . / ?;' 872=4>/ ?/ 48

1D/' 0) 15< <4<>/5 ;2/ 7 '10 7 </ 72AO 941 # 45 A1'/4 A7;9< @/ ';667'/< ';A.# <4<57 <7;@ @; ? 4=. 627<;A/ ./ 724=4519# 48 . /2/ : 1" 150 7AA1'475 .166/5/< 7 A7?/ 1 94 9/ 91 /2 .15 ;';19# 0/' /2<10# 7 !/2'1499/' ./ : .79/ A7;2 .1<4 .1 .1< </A912/< : 12) : ./5 ./0 '1 :?/4 '775 6; 1 ' 76 7 .1 2/672 1?=91< 7 '// ./ 614E941?/5 =7/" 75 '7 :/99 .1 : /5//< 8/12 57 .45=) 15< .76/ 7 '// .499 ' A1224/< 75 7;2 '4</ 1" .4=. 1" 7 ./2" <7# :.4A. 4" ./ 7590 :10 7 627A;2/ :.1 : /14?1 I

.2//<10" 91 /2# 72< 15A./' /2 : 4 4 /' H ./0 <7 57 : @/=45 7 @/./>/ 72< /9872 : 24 ./9/ /2# 872 ./45 1 ?155/2 .1" 7 :5/<4)@/'4</' 72< 4<<9/B 75 4" '7 2/1 /< .1 .4" 612 0 4" =91< /57;=. 78 .4" 7AA1'475 7 2;45 ./7 ./2 .1 ./ 74;& 78 215A/ :499 <7 :4 . 944?4" 0/ ;5A/2 145 /:/5 7 /2?145'# @; :1" 2/8;'/< /5 215A/ 45 7 ./ 1' 9/# 15<# ';667'/# :4 57 @/ '//5 1 !/2'1499/' I

./ 7;2 78 215A/ 2/94/>/<1 ;5A/2 145 0 75 .4" 6745 45 9/'" .15 1 ://C 5 12A. # ./1?@1''1F <72 45872?" !/2575 * H 72< /9872 :1" 72</2/< 7 5=/2" 612 ;5/ /2/</ 1A./)0/ '7?/ :499 .1>/ 4 ./ .1" .1< ;5</2.15<1'';215A/" 7 @/ 2/' 72/<:./5 188142" :499 1<?4 78 4 I

./ ;59;ACO @;5=9/2 :1" .;" <4'67'/< 7+ 15<# '10" O$- ! <:# "#$ O!" :# '+$-EF

H 1?.1660/57;=.# 57 :4 .' 15<45= ./ <4884A;9 4/" :/ .1>/ @//5 91 /90 ;5</2# 7 2/ 145 '7?/ A2/<4 1 7;2 # 15< .1>/ 57 2/1'75 7 A7?69145 78 ?0 2/A/6F 475 ./2/) 48 @0 .4" ?/15" A15 '/20/ 5" 1D/' 0# :499 .1>/ ?0 /5< 5/ /5<1 145/< :1" 15 /O62/''475 78 ./ A75>4A 475 78 ./ 2/5A. 454' /2 .1 ./9/ /2 914< @/872/ ./ 5= '. 12.1?/5 :1" :24 /5 @0 72< /9872 < /72A0 79< ./1?@1''1<72 .1 V .4" L 72< /9872 &'M :48/ .1< 7:5/<4 :4 .15 /OA;'/) ./ A758;'475 ./ :1" 45# 15<4 @/45= 2/1< 7 .4?45 2/5A.#

>5

?1</ .4?L 72< /9872M .45C ./2/ :1'' '7?/ .45=
1<</<#@; .1 ./ '45A/87;5<4 7 ./4B:4'/ ./2/;675
./ :1'@154'./< &
H ./ ;'/ ?1</78 .4'#I 2/?12C'' ./ 1?@1''1<72#
H:1'' 7 '.7: </ 72AO .1 .7'/ ';'64A475'' ./0
.1<# .1 4 :1'' <75/45 72</2 7 45891?/ ./51475
1=145' 215A/# A7;9< 57 975=/2 2/?145 I ./'1?/
9/ /2 .1'' 1 2/8/2/5A/ 7 '7?/ ?4572 1=/5 '' 78 ./
$1A7@4 / A1;'/(H 1?7 79< 75/ /4=.# 1 2/872?/<
7884A/2# 15< 215@;25/#'75 78 ./1''1''45# 12/=75/ 7
;5C42C)15< .1 7975SN 12C/2 4'' ?4''45= I 1290
45 6249#:/.1>/ .4'' 57 484A1 475 78 ./1A 4>4 0 78 ./
'60 '0' /? * H 1>45= .4'' 76672;54 0@0 42 1?@/2
91AC:/99# ''/5< 07;. ./A764/'' 78 '7?/9/ /2'' .1
.1>/61''/< .27;=.?0 .15<'# .27;=. ./?/15'' 78
27A12<#:.7 .1'' 78 91 / @//5 ?72/<494=/5# 15< '
.1>/'';66./< .4?# 827?4?/ 7 4?/#:4 .?75/0# /9'/
./2/4'' 57 .45= 7@/<75/:4 .?.4? I

./ $1A7@4/'' 1@7; ./ 5=.'.7;2# 72 45 ./
612941?/5# /O.4@4 45='7?/161 .0 1'' 7 ./42 H91 /
C45=&' I 627'6/A '# :/2/ /OA4 /< 7 1A 475 @0 ';4 1@9/
?754 475'(*

H '1?1''; 2/< .1 ./2/12/ '/5 78 /5 827?.4''
7;2 912=/45' 2;A 475'':.4A.12/A7??;54A1 /< 7 ./
/?@/2'' 78 12.1?/5 * 947'/ ./0 A199 ./2/V:/99B
45A.5/< 7 1 6/1A/#& 15<'7# A75'/J;/5 90# 872 ./=77<
78 ./42 A7;5 20 ./0 45'45;1/ 7 ./?.1 ./G
2/5A.C45=.1'' 57</'4=5 1=145' 5=915<#5/4 ./2:499
./ />/2 627?7/ ./45 /2/'78 ./ 2/ /5</< 245A/
78 19/'# ;59/'' ./51475 '.199 16627>/78 4 75
A/2 145 /2?'# 15< A75<4 475')1 ./42 .@/2 4/'' 12/#
45 <15=/2 48 ./0 />/2 1<?4 15 12?0 1=145 45 5=915<#
./0 19'7 1AJ;145 ./?.7:199 ;276/4'' 872 215A/#
15<:.1 2/1 4/'' ./0 .1>/?1</#I

72< 15A./' /2 ./5 57 484/'' ./ 627@1@9/ 62/''/5A/
45 75<75 78 1 2/5A.$1A7@4/ 1=/5# 1 ; 7;''45#

: . 7' . 1<' '/2>/<' . /' " 45=' 78' 215A/# 1'' 1' '60#D5' 190 ' H' '4'' 57 ' 975=#I' . /' '10'# H' '45A/' . /' <4'166/12/<' 827?' . /5A/) : . / . /2' . /' 166/12'' 6;@.A90' ' A1557 ' /99 ' ' 4'' . 7;=. # 48' . /2/' @/' 7AA1'475# . /' ?10' 1'';?/' 1' A.121A /2' 827?' . /' 2/5A.' C45=' .4'' 4'' '7' 54A/' 1' ?1 /2' .1 # 48' ' .1<' 4 ' 57 ' 827?' 75/' : . 7' A15' .1>/' 57' 45 /2/' ' 7' </A/4>/' ?/# ' '. 7;9<' 57 ' 1C/' 57 4A/' 78'4 I

AA1'4751990' ?0' /247;'' 6/2'75'' 166/12/<' 45' 215A/# 15<' 72<' 15A./' /2' :1'' 6/269/O/<' 45' </ /2?4545=' : ./ ./2' ./0' :/2/' 1=/5 '' 78' ' /2?145'' 72' ' $1?/'&' ' .;'# 75' ./' - .' 78' 10# ./' :24 /'(* HU ' .45C' 4 ' A75>/54/5 ' 7' 1AJ;145 ' 07;' .1 ' 75/' 16 145' 1?6@/99# 872?/290' 45' 72<' 725&'' 2/=4?/5 # 4'' A7?/' 827?' 5=915<' /' '/' 7;' 75' 24<10' ./' ' .' 827?' 75<75# 15<' :1'' 75' ;5<10' 5775' 1 ' ' /54'# : ./2/' ./' ' 10/<' 499' ./' 5/O ' ?72545=' ' 4'' ?72/' 7' @/' ';'6/A /<' 1 ' .4'' 4?/' @0' .4'' /06/<4 475# 15<' ' C57 :' 4 ' 4'' ;';19' 7' 2/A/4>/' :.1 ' 61AJ;/ '' <7' A7?/' 872' ' /2?145'' 1 ' ' /54'# @;' /'6/A41990' 57 :' ./0' L" 45=' $1?/'' 15<' .4'' J;//5M' .1>/' @//5' 1 ' 7;2@75 ' < ' ?10' 45872?' 07;2'/98' 78' ./' '/A2/ 120' 78' A7 915<) 4 ' ?10' @/' ./' A7?/'' @0' 72</2# :.4A.# 48' '7# 4 ' 4'' :/99# 872' 2/90' 75' 4 # .4'' 7;2 ' A7;9<' 57 ' 1A ' '7' 1'' ./0' <7# A75'4</245=' ./42' A42A;?' 15A/'# .1<' ./0' 57 ' .76/'' 78' 7;2' <4>4'475'' @7 .' 45' 5=915<' 15<' A7 915<' ' A1557 ' / ' :.1 ' 4'' 94/' ?/1545=) 78' 91 /' 575/' 78' .7'/' 9/ /2'' 12/' A7?/# 15<' # 7' :.7?' ./0' 12/' :24 # 4'' ';2624'/< 1 ' 4 I

5' 1' 67' 'A246 ' 7' 1' 9/ /2' 7 ./2:4'/' 78' '?199' 45 /2/' # ./' 87997:45=' H A;247;'I' A7;69/' 12/' 45 27<;A/<* ./' 1 /5<15 '' 78' 75/' 7;2 ' </'427;'' 78' H' 977C45=' 45 I' 75' ./' '7 ./2(* H' 0' 72<' 75 =7?/20' 15<' .4''91<0' 12/' A7?/' 827?' ./5 ' .4 ./2# 15<' 2/?145' 45A7=54 7 ' /' '/5 ' 7' C57 :' :./ ./2' ./' ?4=.' :14 ' 75' ?/# :.4A.' ' A7;9<' 57 ' 2/8;'/' /' '14<' 4 ' :1'' ./' A;247'4 0' 78' .4'' :48/# 15<' ./' 77C' .4'' 76672;54 0# 57 :' ./' 7;2 ' 1 ' ' /2F ?145'' :1'' =75/# 15<' ./' 45 /5<'' 7' 9/1>/' .4'' 691A/

7' ';@'4' ' 75' /' .1'' 76/5/<' .4'' ?45<' 7' .4'' 6/2'75# 15<' : 7;9<' .1>/' .1<' .4?' =75/' 872' 5=915<# '7' .1 ' ./' : 1'' 872A/<' 7' 627?4'/' 7' '/5<' 4 # 15<' .1 ' 4 ' '. 7;9<' 57 ' 94=. ' 45' 150' 7 ./2' .15<'# @; ' 1'' <42/A /<)' '7' .1 ' ' ?;' ' </'42/' 07;' :4 ' 1C/' 57' 57 4A/' ;59/' '' 4 ' 4'' ?/5F 475/<' 7' 07;' /'<7/'' 57 ' C57 :' .1 ' .4'' 6/2'75' 4'' 45' 150' : 10'' A75A/25/<' : 4 .' ?/

H' ' .1>/' .1<' '/>/219' 62767'19'' .1 '45' A1'/' .4'' 1D/' 0' '. 7;9<' 2/A7??/5<' ./?' 7' ./' /?6/272# ./2/' 12/' 5;?@/2'' 78' 24' .' 7884A/2'' : 7;9<' J;4 ' .4'' '/2>4A/# 15<' ' <7' 247 ' <7;@ ' @; ' 45' 19O# : ./2/' ./2/' 12/' 87;2' 2/=4F ?/5 '' '/5 # @; ' ./0' : 7;9<' =7' 7' ./' ?6/22194' '# .1<' ./0' ./' 9/1' ' /5A7;21=/?/5 * 15<# 4 ' ?10' @/# : 4 .7; ' 4 ' '' ./0' 12/' 199' 164' '# ./0' 12/' ' /5'4@9/' ./0' A1557 ' '/2>/' .4'' 1D/' 0)' @/'4</'# 18 /2' : .1E' .1'' 61'' /<# 4 ' : 7;9<' 57 ' @/' >/20' 1<>4'1@9/# : .4A.' ?1C/'' ./?' 627F 67'/' ./' '/2>4A/' 78' ./' /?6/272 ' ./' 24' .' .1>/' @//5' '7' 499B 2/1 /<' .1 ' ./0' 2/' /5 ' 4 ' 1'' ?;A.' 1'' ./0' <12/ ' ./2/' 4'' 75/' 4AC'# ./' 51?/' ./' =7/'' @0' ./2/# 15<' C//6'' 15' /1 45=B.7;'/# @; ' A15' .12<90' 94>/# 4'' =75/' 872' 5=915<# 15<' 4'' '775' 7' 2/ ;25 ' /' : /5 ' : 4 .' .49946'# : .7' 872?/290' @/975=/<' 7' ./' ;C/' 78' .2/ : '@;20 * ' .45C' : 1'' .4'' >19/ ' </' A.1?@2/ * @0' 4/66/# 15<' '7' 7' 0/ ' ' 1?' 79<' ./' 872?/2' A1224/'' 9/ /2'' 827?' ' /2?145' ' ' '.7;9<' .45C' 4 ' : 7;9<' @/' : / ' 7' '/5<' 7' .49946'' 7' A7?/' 7' 07;# 15<' 45' A1'/' ./' </50'' ./2/' 4'' ';A.' 1' 6/2'75' A7?/' 7>/2' : 4 .' .4?# 07;' ?10' @/' ';2/' ./2/' 4'' ?72/' 45' .4'' ?1 /2# 15<' .1 '. /' 4'' 19'7' A75A/25/<' /' A7?/'' 78 /5' ./2/';5</2' ./' 62/ /5A/' 78' @;045=' .45=' ' .4'' 4AC'' '10'' ./' 4'' 1' 27 /' 15 # 15<' A7?/'' '7?/ 4?/'' 7' ?0' A.16/9 ' /' A1?/' 7>/2' : 4 .' ./' 91 /' C45=# 15<' .1'' A75 45;/<' />/2' '45A/# '7' 4'' 941@9/' 7' ./' A ' 78' 12F 941?/5 ' ' 1?' 78' 7645475# 48' 07;' ? /' : 4 .' .4?# 07;' : 7;9<' '775' <4'A7>/2' : .1 ' ./' : 1'' 1@7; I

! /2575' 1<76 /<' .4'' ';==/' 475# 15<' 977C/<' 18 /2' ./' $1A7@4 /' /1 45=B.7;'/' C//6/2' : .7' : 1'' .198' ' 12>45=

+' 4"' "1@494 0' 7' ./' A'78' 12941?/5' .1"' 2/8/2/5A/' 7'
* ./' /51A ?/5# : ./2/@0' 5=.'.' ';@D/A "' 15<' 7 ./2'#
7:45=' 199/=415A/' 7' 4994154' : .7' .1<' =75/' 7>/2' : 4 .'
$1?/'# 72'2/'4</<' 1' A/2 145' 4?/' 1' ' /2?145'# : /2/'
57'6/2?4 /<' 7'/' 1@.'.' ./?'/9>/"'45' 5=915<' .1'
!/2575'./12<'78# 72'827?# ./'6772'$1A7@4 /' 4AC'#4"'57'
>/20'A9/12#@;' 72<' 15A./' /2':24 /"' 7' ./''/A2/ 120#
45' ;=;' (*

H' '.1>/' 07;2"' 78' ./' .' 61' ' "' 872' 4AC'# '
.1>/' 2/1'75'57' 7'@/./>/' :.1'./''10')@;'4'A1557'
@/'78'150'=2/1'A75'/J;/5A/)48' .1' :1"'.4"'7590'@;'4F
5/''# ./' :7;9<' .1>/'?/5 475/<'4' 7'?/# 15<' 57'=75/'
1:10'1"'./'<4<' 7;' :499'//# :/''.199'775'.1>/'.4?'
./2/'1=145' ./2/'4"';A.'72'78'8/997:" .1'=7/" 15<#
A7?/"/>/20':/C' '<7'@/94/>/'612'78' ./42'@;'45/''"
4"' 7'2;5'=77<"' 827?' 215A/# 1' 0/) 15<'4'4"':/99'48'
'7?/'7884A/2"'78' ./'A;'7?B.7;'/' 9;'2/'<7'57'/5A7;21=/'
./? I' 5'1''';@'/J;/5'9/ /2'2/8/2245=' 7' ./''/' ';'F
6/A /<'72'5/=94=/5'7884A419'# ./' :24 /2' '10'(* H' 8'1'
0/' ./'A;'7?B.7;'/'7884A/2"':/2/'<4.=/5'45''/12A.45='
./' 6/2'75"' .1'A7?/' 7>/2# ./0' :7;9<' 845<' 1'=2/1'
</19'78'91A/# 15<'19'7'61AC/ "'78'9/ /2'# .1'@/45=' ./'
:10' ./0'12/'A75>/0/<I

.4"'4"' ./'91'S57 4A/' 1C/5'@0' 72<' 15A./' /2'78'
./'$1A7@4 /' 5 / 4=/5A/2"':.7' :/2/'1AA;'7?/<# :4 .'
=2/1'<1245=#A75'4</245=' ./'6/519 4/"' 7' :.4A.' ./0'
:/2/'/O67'/<# 7'7'A4991 /#1"'4':/2/#@/ ://5' ./' 7;2'
78' /2?145"' 15<' 6/2'75"' :.7'2/'72 /<# :4 .7;'
2/5</245=' 1' 2;.8;9' 199/=415A/# 7' ./' 7;2'78' '
$1?/'&' ./'1?@1''1<72# .7:/>/2# ?/5 475"'@7 .' 7'
2' 91 .:10' 15<' 2' !/2575# ./' 7;5' 7'A/994#
192/1<0'51?/<# 7':.7?''7?/'?0'/20''//?" 7'1 1A.'
4'/98

7' 2' 91 .:10# ./'1?@1''1<72':24 /'# ;=;'' 3#
, (*H '<7'@/94/>/'07;' ?;'' .1>/'./12<'78' 7;5'
7'A/ 4# :.7'.1"'@//5''7?/4?/'45' ./' 1'499/' '</

"# , ‘););\'

?

A.12=/'# : ./5‘ ‘ :1"‘1?@1''1<72‘1 ‘ !/54A/# 7‘A7??/5A/‘ 827?‘494A.1/9?1'# , Q# 78‘:.4A.‘ ‘.1>/‘2/A/4>/<‘ # 4‘ 7‘ 1 ‘ D444A.1/9?1'# , # ./2/‘2/?145"‘ <;/‘ 7‘ ?/B‘1 ‘ .1 ‘ 4?/‘ #- E+# :.4A.‘ ‘.1>/‘9/8‘ .;"‘ 45‘A1'/‘78‘ </1 .#/A‘ H‘

8‘ ./‘ <4'67'19‘ 78‘ .4"‘ ';?‘ ./2/‘4"‘57‘ 1AA7;5) 9/1>45=# ./4B/872/# 624'75/2"‘ 1 ‘ 914E=/# 15<‘ 6/5'475/2"‘ /O6/A 15 # :/‘ ;25‘ 7‘';@D/A "‘78‘1‘ ?72/‘<7?/' 4A‘15<‘ 94>/90‘45 /2/'

' 188142'' A755/A /< : 4 .' 6794 4A'# 72' ?1 /2'' 78'
: .1 ' ./' 2/5A.' : 7;9<' A199' H' .4=.' 6794A/#I' 72<' >54
15A./' /2' /5D70/<' 94 9/' 76672 ;54 0# 72'45A9451 475# 7'
51221 /' ./' 8971 45=' 'A15<19' 78' 94/' <10# /99' 15/A<7 /''
499;' 21 4>/' 78' '7A419' .8/# 72' /5 /2' ;D475'<4'A;''475'' 78'.4''
7 5'<7?/' 4A' 12215=/?/5 '' AA1'4751990# .7 : />/2#
45' 15A/'' 78'1 ' ./'/' 12/' 7' @/' ?/' : 4 .' /2.16'# ./'
?7'' 45 /2/' 45='4'' 45'2/8/2/5A/' 7' 1'81?490'A42A;?' 15A/'
: .4A.' 5/1290' A75A/25/<' ./' /129# 51?/90' ./' @42 .' 78'
.4'' 842'' '75' 45' 124'# 45' ./' ?75 .' 78' 6249' , '
.72 90' 18 /2' .4'' />/5 # ./' A75A9;</'' 1'9/ /2'75'872/4=5'
188142'' 78'57' =2/1 '4?672 15A/# 45' ./''/' : 72<''(H' ' ?;' '
@/=' ./' 81>7;2' 78' 07;2' 72<'.46'I' L ./' 9/ /2' 4''
1<<2/''/<' 7' 72<' $/2'/0M# H'48' 07;' .45C' 4 ' 57 ' 77'
?;A.' 62/';?6 475# 7' 1'';2/' .4'' 1D/' 0' 78' ?0' ?7''
.;?@9/'<; 0# 15<' ./' =2/1 ' 7@94=1 47 ' 4 ' : 7;9<' @/# 48'
./' C45=' : 72<<' <7' ?/' ./' .757;2' 7' A.24' /5' ?0''75'
8' ' .1>/' ./' .757;2# ./' ;C/' 78' 218 75' : 499' @/' 94/' B
7 ./2# : 4 .' ?0' 1<0' ;5</2915< I' 8' ./' ;C/' 78'
218 75' : /' '.199' .1>/' 7AA1'475' 7' '6/1C' 62/''/5 90'
./' 1<0' ;5</2915<' ./2/' ?/5 475/<' @0' 72<' 15F
A./' /2# 1''=745=' 872' ./' 07;5=' 72<' 15</>499/# 18872<''
1'=77<''7A419' 499;' 21 475' 78' ./' 4?/''45' : .4A.'' ./' .>/<'
./' : 1'' ./' 1<0' 55/' 4=@0# <1;=. /2' 78' ./' 128'
78' 24' 79' ./' .1<' @//5' : 77/<' @0# 15<' 188415A/<' 7#
7@/2' ./' .42<' 129' 78' ;5</2915<## 78' ./' 6/5A/2'
81?490# : .7' L1AA72<45=' 7' ;25/ M' 6278/''/<' ./' 7?4'.'
2/.=475# 45' 72</2' 7' =21 480' 45=' $1?/'' ./

L 7<<45= 75# <1;=. /2' 78' 7@/2 ' 2/>499/# 87;2 .' 72<'
277C/M' H 910"' 199' ./' 81;9 ' 75' 07;' .1 ' :/' .1>/'
57 ' 0/ ' ./12<' 48' :/' ?10' =4>/' ./' 94 9/' 75/' ./' C45=&"'
51?/# 15<' :4 .7;' C57:45=' 67'4 4>/90# ' <12/' 57 '
>/5 ;2/ ' 7;' '//' :.1 ' 07;' 12/' 94C/90' 7' <21:' 75'
07;2'/98# '7' .1 ' 1 ' 62/'/5 ' 07;' 12/' 1' 94 9/' 7;' 78'
81>7;2# 15<' :499' @/# ;59/'"' :/' ./12' @0' ./' 5/O '
9/ /2' I' 7' .4"' 2472' 2/694/"' 827?' .4 /.199' 75'
62 ' # ,

' * 1>45=' :24 /5' 872' ?0' ?1' /2# ' .1>/'
>/20' 94 9/' 7' 1<<872' ?0'/98# /OA/6 ' .1 ' '1?'>/20' =91<'
?0' 72<' 15</>499/' 4"' A7?/' 7' 7:5# 15<' f9476/'./'
:499' ' 10' 975=' :4 .' ;' ') '1?' =91<'./' 4"' @725' 1 ' 124'#
872' .1<' ./' @//5' @725' ./2/# ./' :7;9<' .1>/' 94C/<'
94>45=' 1?75='';"'7' . 9/' .1 ' 'J;/' 475' 48' ./' :7;9<'
.1>/' .7;=.'4 ':72 .' .4"' :.49/' 7' .1>/' ';AC/<I

./' H 5/O ' 9/ /2' I' <4<' A75 145' ./' C45=&"' 6/2F
?4''475# 15<' ./2/;675' :1"' A.24' /5/<' 45' 124'# ./'
A4 0' 78' .4"' @42 .# 49941?' 75 1=;# :.7# 1"' '/A75<'
;C/' 78' 15A./' /2# ';AA//</<' .4"' 81 ./2' 45' , '
./' 1?@1''1<72' =4>/"' 57' </'A246 475' 78' ./' A.24' /545='
A/2/?750# 45' 10' , ') ./' '//?"' 7' .1>/' A75'4</2/<'
./' 87997:45=' 2/94=47;"' L15<' 6794 4A19M' A/2/?750' L ./'
A75842?1 475# 72' 842'' A7??? 4475' 78' "45=' $1?/'M' 78'
?72/' 45 /2/' # 1 ' 9/1'' 7' ./' ?454' 20' 1 ' ./' 5=94'.'
A7;2 (* H' 5' .;2'<10#I' ./' :24 /'# 45' 1' 9/ /2' <1 /<'
10' # , # H' :1"' 1' =2/1 ' <10' ./2/' ./' 445A/' 78'
19/'# 1"' ./0' A199' .4?# :/5 ' 45' ' 1 /' 7' 7 2/' 1?/#
15<' :1"' 2/A/4>/<' @0' ./' 2A.@4'.76' 78' 124'# :4 94' ./'
'1?/' .757;2"' 1"' 48' ./' 2/5A.' C45=' .4?'/98' .1<' @//5'
./2/' 8 /2' ?1'"' ./' :1"' /5 /2 145/<' @0' .4?# 15<'
07;2' 72<'.46' ?10' /1'490' 4?1=45/# 199' ./' 5=94'.' .1 '
12/'./2/'2;5' 7' '//' .4?' ' ?;'' A758/'"' ' 1?' '7?/F
4?/"' ';2624'/<' 7' '//' .45="' 78' .4"' 51 ;2/' '7' 78 /5'
<75/# A75'4</245=' ./' '4 ;1 475' 78' 188142"' 1 ' 62/'/5 I
1'.475' 15<' A4;B47'4 0' :/2/' 77' ' 275=' 872' ./?# 15<
' '

1 A.;2A.# 72 1@271<# 5=94'. >4'4 72' A75=2/=1 /<
51 ;21990 7=1K/ 1 . /<45./24 /<./42 /15:.49/#
.7:/>/2'1 4'81A 72490 72< 15A./' /2 ?10.1>/8;9F
8499/<.4' 7884A/# ./ 2/1';20:1';569/1'15 90<491 720
45 872:12<45=.4?. /?/15' 7 C//6;6 ./ .7'64F
194 4/' 78.4' =2/1 7884A/ ./2/4' 2/4 /21 /< A7?F
69145 78B.4' 2/?4''5/''#B@; . /A7?69145 #4' ?1</45
./75/78 1?15:.7C57:'.7: 7 2/'6/A .4?'/98
5 1 9/ /2 7 2472#./2/?12C'# H 5//<57 /99 07; .
.1>/B150.7;=.'78=27:45=24A. 8 <7 57 ?1C/
?0A42A;?'15A/':72'/#./2/18 /2#4'199 </'42/ I
/15:.49/./2/:1' ?122045=15<=4>45=45
?12241=/ H 2 4 KD1?/'4'=745=7 ?1220 1 =2/1
872;5/#C499/ ;'15 . /81./2 4' 842' =/5 9/?15 78
./ 245A/ 78 75<Y .1' @//5 A1224/<75 @0./
;C/78 145/)15<#4 4'.7;=.# ?/ </ 145 /575
.1' @27;=. 4 1@7; " 45=$1?/' 45 /5<' 7=4>/.4?
./ 12 /2 I 8 /2.4' ?12241=/.1< @//5 '79/?54'/<
45 $590 , # ./ /129 :24/' 7 91 .:10 # H 2
4 KD1?/'#:.7 4' 91 /90 ?1224/<# 4' 7 @/ ?1</ L1M ;C/
78 215A/ ';667'/'./4' 57 :49945= 7 2;'' 7 .4'
<;C/<7?' 45 5=915< .4' C45=4>/'.4?'1 6/5'475
78 # .>2/'# 15<./4' 7 .1>/15 1612 ?/5 15<
1@9/ 827?'./ ;C/78 145/#@7.'1 ! /2'1499/' 15<
124' .4'4' @0 1<1?/ </ 145 /575# :.7 4'
>/20 875< 78./07;5=91<0 I
1 /2# ./ /129 .45C'4 :72.' :9449/ 7 2/A72< 84/
81A .1 H ./ ;C/78 218 75=7/' 7:12<' 190 45 1
8/:'<10' I .4' :1' .129/' 4 +E70&' '75# ./ '/A75<
<;C/#:.7'/?7./2# '1@/991#<1;=./2 78 /520 /55/ #
129 78 2945= 75#@27;=.'./ ;' 75 /' 1 /# 45 ;84@9C#
45 7 ./2 .;'@15<& 81?490 .1 .;'@15<# ./ 842''
<;C/#:1'75/78./'75' 78 .129/' 15<./ ;A./'' 78 9/>/915< $7.5# 72< 12>/0#:27 /''7?/'1 424A19
845/' 75 ./''/A75<<;C/# 45 :.4A.'./''14<'(*

5 75>-'8-;,01'=55=7 -*8+50' .))',.,0),+'75>'D,,C'
<@*D,'=,'4*0.+'B>-+N *01'=,.?'?+;))'B*)8'*?),,C

7 > ;

=145 : /819945 : 4 94 </1 . 15< 4 81'.475' * .4 4?/ 7;A.45= ./C45= 5/1290# .4 @27 ./2# ./ ;C/ 78 29/15'# <045= 45 $;5/ , ./ 87997:45= 4 7 /A2/ 120 !/2575(*

H ./A7;2 =7/ 45 7 ?7;2545= 7B?7227:# 872 ./ </1 .78 ./ ;C/ 78 29/15'# :.7 :1 1C/5 1 ';66/2# 75 /<5/'<10 91'# ? .1 84 78 15 16769/OO# 15< <4/< 1@7; :/9>/ ./5/O <10 /.1< 57 .4 '6//A. 827?./4?/./:1 1C/5 4 ./C45= :1 :4 . +.4?? 7' 612 78 ./54=.#:.7 4 /O 2/?/90 A75A/25/< .1>/A75A/2 /< :4 . ./2/' 78 ./6;@94A ?454' /2 :.1 :/12/ 7 <7 75 .4'B7AA1'475) 15< 4 4 1=2//< .1 5/O ;5<10 :/'.199 ?1C/ ./C45= 1'A7?694?/5 1 827?7;2'/9>/' A1557 /99 0/ 45 :.1 ?155/2 .4 A7;2 :499 57 480 4 7 .4 1D/'0 .1< ?0 .>/24/'# bA#@; ?;' 57:'6; 199 1=1?'45 7 ?7;2545=# 15< A1557 ' 10 872 07;2 <42/A 475'# '45A/'@0 ./5< 78 5/O :/C 575/ :499 166/12 7 ./2:4'/ 4 0/ ;5A/2 145 75 :.1 877 ./;C/ 78 .12 2/' :499 @/# .7;=.4 4 '14<# @0 ./A75 21A 78 .4 ?12241=/# ./ C45= A75'/5 /<a.1 75 ./</1 .78) & ./'1?/ 2/>/5;/ ./.1< 827?' ./A27 >5 '.7;9< @/ A75 45;/< .4?' 15< .4 A.49<2/5# :4 . ./4 9/ 78 29/15'# ;12<'# bA(7 ./2:4'/ ./:7;9< @/977C/< ;675 57:' 7590 1 ./842' 6245A/ 78 ./@977< I

5 ./ - . 72< 15A./' /2 57 484/' 7 !/2575(*

H @/45= 1 91' '/ 9/< @0 ./C45=# .1 75 ./ 7AA1'475 78 75'4/;2& </1 . ./'1?/A/2/?750 '.7;9< @/7@'/2>/< 1' :1' 75 9/ 1;6.45&'# 0/' /2<10 .1< 6;@ A 1;<4/5A/' 78 ./:.79/A7;2 # /OA/6 1<1?/ 15< ./ ;A./'' 78 .12 2/'# :.7 :/2/ 45A.'67'/<# '7 .7'/ 12/ </8/22/< 4 5/O :/C ./A.4/8 612 78 ./ A7?694?/5 ?1</ 7 ./C45= :1' 1' 84&7?' ?0'/98) .7;=.1 ./'1?/ 4?/# 77C 57 4A/.7:' ?;A. ./ C45=# ?0 ?1' /2# :7;9< @/A75A/25/<# bA ./C45=&'

1588:)/2 :1'' /O 2/?/90 7@94=45=) 15< '14< ./ <4<c57
<7;@ 78 ./ C45=&' A75A/25 75 .4'' ';2624'45= 7AA1'475
./ ?155/2 .4'' :499@/ 57 484/< 7 .4'' 1D/' 0# :499@/
@0 9/ /2'' :.4A. 2 7;''45/ :499 6; 45 7 07;2 .15<''
./ C45= :499 :24 / 7 .4'' 1D/' 0# 45 '' 7?4 .15<# '7
.1 </'42/ 07;:4 =4>/?/ ./ 5/A/''120 45' 2;A 47.'#
:4 .'';A. 9/ /2'' 1'' 12/ ;';19# .1 ./2/ ?10 @/ B57#
?4' 1C/) 1'' 19'7 :.1 ./ 6245A/'' 4'' 7 <7 75 .4''
7AA1'475 ';667'/ 4 :4 @/ '775 57 484/<# 15< ./
'775/2 ./ A7?694?/5 4'' 2/ ;25/<# 4 :499 977C @/''
./2/ ./ ;C/ 78 .12 2/''.1'' ./ 4 9/ 78 29/15'')
@; ./ A/2/?75419 4'' ./ '1?/ .1 :1'' 872?/290 I

0 $;90 3# .4'' '79/?5 6794 /5/'' .1< @//5 '79/?590
6/2872?/< 5 .1 <10 !/2575 4'' 79<(H# 62/'/5 /<
G)/' /2<10 .4'' 1D/' 0&'9/ /2'' 7 199 .4'' A7;2 # :4 . ./
á;';19 A7?694?/5 / 75 ';A. 15 7AA1'475# /OA/6 ./
1;6.45# :.7 :15 1 / ;<75) 15<E 1<1?/ <7/'' 57
2/A/4>/ 1;<4/5A/ ;5 49 872 0 <10'' 18 /2 75'4/;2&'' </1 .#
:.4A. ./5 4'' 166745 /< 872 .4'' 8;5/219 ./42 27019#
944=.5/''/'&9/ /2'' 7c ./ C45= 19'7 62/'/5 /<# '7 .1
?1 /2 <7/'' '//?' 7 .1>/ 61''/< 7 9S/42 '1 4'81A 475 I
5 ./ 5< 78 ./ 87997:45= ;=;' # .1 2/?145/< 7
@/'8;98499/<78 ./ 7884A419 <; 0 :1'' ./5'612 90 6/2872?/<'c
5 ./ 2<# 72< 15A./' /2 :24 /''(H ' .1< 0/' /2B
E<10 ?0 1;<4/5A/ 78 1<1?/# :./2/ ' 62/'/5 /< .4''
1D/' 0&'' 9/ /2'' :4 . .7'/ 78 ./42 27019 .4=.5/''/'
5 1;2<10 '1?' 7 .1>/ 1;<4/5A/ 78 ./ 1;6.45 I
./5 ;2545= 827?' ./ 872?19 ' 1 / =24/8'' 78 ./ A7;2 #
7 1 >/20 ' 275= =24/>15A/ 78 .4'' 7:5# ./ :24 /''(H '
1?' ?;A. 7@94=/< 7 72< 7<796.45) :.1 ' </'42/
1 62/'/5 ' 78 ./ 72<'' 78 ./ 2/1';20 4'# .1 ./0
:7;9< 57:' 61D2 ?/ 1 J;12 /2# 45 A1'/ ./0 A1557
A75>/54/5 90 <7 ?72/) 4 :499@/ '7?/ ./96 7 ?/
' ?10 67''4@90 .1>/ 7 9/1>/ .4'' 691A/ 78 1 ';<<5#
15<?;'' A9/12 199 ' 7:/# :.4A.' 1'';2/ 07;4'' >/20
A75'4</21@9/# 1'' 07;' ?10 4?1=45/ @0 ./ 122/12'' .1

*-,4)>,+5 9 , *?+);,-,@;))=,*05+B,-H>*-+,-*+*+B,,01 c\
58+B;? 9 50+B G.

5 ;=;' # ./2/4157 ./2199;'475 7 ./ 29/15'
81?490(H 75'4/;2 9& @@Y</ 74'L ;@74'MR!1 7:14
G75 ?/#B827?. / ;C/78 44/144') .1>/B192/1<0 8;990
1AJ;145 /<.4' 1D/'0 c:4.199 .1 61''/<B 1C/4#
./2/:499 @/57=2/1 <. A;9 0 45 7@94=45=.4?#'45A/
./:72< V 75'4/4?&4' 1 ./</'42/'#15<E./.1'
./.757;2'./2/.4'81./2.1<B .7;=.4 EB6276/2
7 1AA6145 07;'78 4#15<@0 ./ /?72419 07;:h '//
./2/1'75'4l B B

: 1' 57 1'C?= ?;A.#./ 4 9/78) &@;C
45 215A/4 :1';'; 1990 ./</'4=51 475 78 ./ C45=&'
@27 ./2 B ./ 1;6.45 :1' 75'/4=5/;4!& &9h5=
49.1?: 1' <4'67'/< 7 =21 480 ./ 5/:<;C/ a 5
/6/?@/2 ,# ./B /129 B:24/' 1=145 B7B !/2575 (B2BH
.1>/75/827?2 91 .d>10 78 .` Q .'61'#:./2/45
./'10' .1 .4' 1D/'0 4' <4'67'/< 7&=21 480 ./ ;C/
78 29/15'# 15< 612 4A;91290 1<1?/#:./2/78 ./2/
5//<@/57<7;@ 48 ./;'1=/.1'@//5 1'4' 1>/22/<45
./ /?72419# 872 ./A9/1245=78 :.4A.#.4' 1D/'0
.1<72</2/<.4?7 '/5<4 7 07;) 15<48 57?1 /2419
7@D/A475 @/?1</# ?10 </6/5<;675 .4' 1D/'0&'
A7?69415A/:4 . >.1'4'</'42/<@0 ./ ;C/78 29/15'
15< </ 72A0 5 07;2' 78 ;=;' # 07;'1=2//
./7;=. 7.1>/1' ?;A.'1' :1' =4>/5 7 1</?74'/99/
<& 29/15'#15<4 : 499 </6/5<?;A.' 75 ./?155/2./
4' 2/1 /<45 ./ 7;2 78 215A/#@; 07;'A7;9<57 /99
:./ ./2 4 :7;9<87997:827?./5A/.1 V 75'4/;2&
'.7;9<@/1<</< 7 .` 4 9/78 ;C/) 57:# 7 A9/12 .4'
?1 /2 1' :/99 1' A15# .7;=.' 07;' A15 @/' 45872?'
07;2'/98 :.1 .1'@//5 621A 4'/<# .7;=.' '@/94/>/ ./2/
A15 @/57 /O1?69/1' 7 .4?# ?;'' /99 07;' .1 ./
724=4519 9/ /2' 6;@94'./< 45 ./ /?72419 2/1<# '7
./2/4'57 <7;@ 78 ./ 81A 1' 7 1</?74'/99/# bA
./?155/2 .4' A7;2 2/1 '.4?4' :4 .'199 ./ .757;2'

.4'5 81 ./2 .1<5 /5 .1'5 15 A.15A/9972# 15 A7;5A49# 15 45 27<;A 72# =;12<'# bA * 7590 75'4/;2 :1'5 = 5 5 & 15< ./5 ;C/5 78 29/15'5 4'5 > 5 = 5 5 = (5 5 :1'5 ?/5 475/< 7 ?/# 45 A1'/5 ./2/5 '.7;9< @/5 150 7@D/A 475 7 ./5 :72<) & 48 .4'5 1D/' 0 :7;9< 2/1 5 .4?5 '7?/4?/'5 45 ./5 @7<0 78 ./5 9/ /2 :4 .5 & 5 C57:5 57 5 48 .1 5 @/5 57 5 ?72/5 5 1?5 78 7645475 48 .4'5 1D/' 0 '.7;9< A7?690 :4 .5 ./5 4 9/5 78 V 75'4/;2& 4 5 :7;9< 57 5 @/5 '45=;912# 872 h9 7 ./2 A27:5/< ./1<'5 =215 5 .4?5 :.1 5 ./5 /O6/A '# ./2/5 :499 @/5 45 4?1 475 ./5 A1557 5 2/A/4>/5 ./42'5 7 ./2:4'/5) 15< .4'5 A7;2 5 :1'5 78 7645475 ./5 7;=.5 57 5 7 15':/2 .4'5 1D/' 0&'5 9/ /2# h9 .4'5 ?1 /2 :1'5 '/ 9/<5) @;5 ./5 <4< 5/>/2 ./9/''# :4 .5 ./5 4 9/5 78 V 75'/4=5/;2# ?75 A7;'45#& :.4A.5 :1'5 .7;=.5 19'7 77 ?;A.5 5 1C/5 4 5 .1 5 ./5 "45=5 =4>/'5 7 ./5 2/1 5 ;C/5 ./5 4 9/5 78 V 75 2`2/5 15< ./5 A/2/?7541 9 @/ :/5 ./5 2/1 5 ;C/5 15< ./5 ;C/5 78 29/15'5 :499 @/5 75 ./5 '1?/5 877 5 7 /1A.5 7 ./2 5 5//< 57 5 /99 07;5 ./5 A75'4</21 475 1<1?/# 1'5 19'7 ./5 ;C/5 78 29/15'# .1'5 872 .4'5 1D/' 0 5) 15< 5 '.7;9< @/5 '7220 150 .45=5 78 .4'5 51 ;2/5 '.7;9< 9/''/5 4 5 8 ./2/5 = h9 2/?145'5 150 7@D/A 475# 5 '.199 /5</1>7;2 7 2/?7>/5 4 I B

./5 H 2/1 5 ;C/5 I 15< ./5 H ;C/5 I 1@7>/5 199;</< 7# :/2/5 ./5 </A/1'/< ;C/5 78 29/15'#@27 ./2 78 7;4'5 % ! 5 15< .4'5 '75# ./5 ;C/5 </5 .12 2/'5 :.7 ';AA//</< .4?#1'5 1.E/1<0 .1'5 @//5 57 4A/<# 45 ./5 4 9/5 78 29/15' 5 ./0 @7 .5 @72/5 ./5 51?/5 78 . 46 5 ./5 81 ./2 :1'5 78 '.72 5 ' 1 ;2/# 15< :./5 0/ 5 1 ' ?199# @24=.B/0/<# <12CF .142/< @70# .1< ./5 57'/5 78 1 ?15 15< ./5 ?7;.5 78 1 <799 5 9/>/2# @;5 5 '.0# ./5 62/8/22/< ./5 '7A4/ 0 78 91<4/'5 7 .1 5 78 ./5 . 9/5 972<'5) @;5 827?5 ./5 872?/2 ./5 2/A/4>/< 57 /<48045=5 45 2;A 475# 45 .4'5 07;. 5 1K1245 72</2/< ./5 ;72'5 78 ./5 81 ./29/''5 @70 7 C//6 .4?5 45 4=57F 215A/# 9/' 5 ./5 '.7;9< @/A7?/5 :4'/2 .15 .4'5 @27 ./2# ./5 C45=5 ./5 2/';9 5 '.7:'5 4 '/98 45 .4'5 ?15.77<5 /5 A7;9< 'A12A/90 2/1< .4'5 7:5 .15<:24 45=# 15<

A12/< 872 94 9/ @ ; 247 7 ; 94>45= /5D70/< 57
A.15A/ 78 <4' 45=;4'.45= .4?'/98# 872 7;4 % ! 2/F
8;'/< .4?# 7; 78 D/197;'0# 199 ?494 120 /?6970?/5
E ./ .45=' ./ ?7' A12/< 872 :/2/# A7;2 @199' 15<
A.;2A.@/99'# 612 4A;91290 :./5 ./'/ :/2/ 245=45= 872
./ </1<# 7 ./12 :.4A. ./ :7;9< =7 150 <4' 15A/
/ :1' :4A/ ?1224/<) 842' 7 /524/ 1# <1;=. /2 78
.129/' 1 91<0 :.7?' 7;4' % ! 4' '14< 7 .1>/
97>/<# 7590 18 /2 '. /@/A1?/ ./ >248/ 78 .4' @27 ./2
72 15 1AA74? 78 ./ /?@27=947 78 97>/2' :.7 89; /2/<
#127;5< /524/ 1# ./2/1</2 4' 2/8/22/< 7 ./ /?742
78 .1 6245A/''# @0 ./ .>/90 74? /' ' </ 1810/ /
./ C45=/?6970/< /524/ 1 7 6;2A.1'/ ./ 199415A/
78 .129/' 45 .4' 1 /?6 7 ';662/'' A4>49 15</2/B
.=47;' 94@/2 0 45 79915< ./ 8142 ?4''475120 77C
:4 . ./2 1 ./1>0 6;2'/ 15< 1 94=. 9OB6245A469/< 91<0#
<99/# </ " /27;1499/# 15<@0 ?/15' 78 @7 .# ';AA//</<
45 ./2 ?4''475 .129/' 2/ :12</< ./ '/2>4A/' 78 ./
2/5A.91<0# @0 A2/1 45= ./2 ;A./'' 78 72 '?7; .)
15< 7;4' 2/A7?6/5'/< ./2@/ 21019 78 ./ '/A2/ ' 78
.129/'# @0 214'45= ./2 7 1 '4?4912 215C 45 215A/
./ ;C/ 78 29/15' A/1'/< 7 @/ 75 =77< /2?' :4 .
.4' :48/18 /2 .4'á/O6/<4 475) ';@'/J;/5 90 7 :.4A.''./
<4/< 78 674'75# ./2 .;'@15< A75'7945= .4?'/98 872a ./
97' @0 6/2'751990 12215=45= ./ </ 149' 78 ./2 8;5/219
15< /'67;'45= 45 ./2 691A/ ./ ' :12 .0# .12<B8/1 ;2/<#
;5A9/15# .75/' .1297 / 94K1@/ .' 78 1>1241# ./
1 1AC 78 16769/00 :.4A.a 627>/< 81 19 7 ./ H 2/1
;C/#I ' 72< 15A./' /2 ' 09/' .4?# :1' @27;=. ' 75
@0 15 ;5'//?90 J;122/9 @/ ://5 ./ C45= 15< .4?'/98#
:4 .' 2/8/2/5A/ 7 ./4 B1''72 /< ?12241=/ 78 ./ <;C/&'
'75# .4.6# 15< ./ C45=& 499/=4 4?1 / <1;=. /2# <99/ '
</ 974' 9;'./< 827?' ./ 19 /2A1 475# ./ <;C/#'1 '
<7>21 7 ';66/2# :4 .' .4' H 91<4/' I 1 ' 97;<# 15<
45<;9=/< ./2/ />/5@/075< .4' 72<45120/OA/''/' ' '. /
:1' 214'45= 1 =91'' 7 .4' .6'# .4' '6//A.'@/A1?/ .4AC#
15< 944' H 91<4/'#I :.7 .7;=. ' ./ :1' '6/1C45= 6154'.#

>?

1'' : 1'' 944'' 7AA1'47519' A ; ' 7 ? # 91 ; = . / < 1 ' : . 1 ' . / 0' A7 ; 9< 57 ' ; 5</2' 15<# 1'' 48'4 ' : /2/' 1'D7C/ ' . /' '4= . ' 78' </1 . ' '775' ' / ' . / ? ' 'A2/1?45=' ' 8/ : ' : 72<'' 78' '0?61F . 0' : /2/' ; /2/< @0' 7 ; 4'' % ! # : . 7# 15' . 7 ; 2' 72' : 7' 91 /2# : 1'' . /12< . ; ? ? 45=' . /'142'' 78'1' . '/5676 ; 912'76/21 . /' '75' @0' : . 7 ?' . /' ; C/' 78' 29/15'' : 1'' ' ; AF A//</<#B15<' : . 7' 4'' ' . 7 : 5' @0' 72<' 15A . /' /2' 7' . 1>/' @//5' '7' 15O47 ; '' 7' 2/ 145' . /' 4 9/ '' 15<' 624>49/=/ '' : . 4A . ' @/975=/< 7' . 4'' 81 . /2# 1'' @27 . /2' 78' 7 ; 4'' % ! # : 1'' . /' 6 ; 649' 78' ; @74'# 51?/<# : 4 . 7 ; ' A7?? /5 # @0' . /' 5=94' . ' 1?@1''1<72 ' . /' ; 72' : 1'' . /' '75' 78' 1' 627>45A419' 167 . /A120# 15<' : 1'' 624>1 /90' ? 1224/<' 7' . 4'' A . 1?@/2B?14< ' . /' 07 ; 5=/2' . 4946' 78' 29/15'' . 1<' @//5' ' 24AC/5' @0' 16769/OO# 1 ' . /' /1290' 1=/' 78'87 ; 2' 0/12' ' /' . 1<' 2/A7>/2/<' : 4 . ' 57' : 72' /' 2/ ' ; 9 ' . 15' 15' 4?6142/< A75' 4 ; 475' 15< 15' 4?6/28/A ' >4'475 ' /' : 1'' 1' 627894=1 /' 827?' . 4'' 07 ; . # ; 6 : 12<'# @ ; ' '7?/' 78' . 4'' 1A '# : . /5' . /' @/A1?/' /=/5 ' 78' 215A/# < ; 245=' . /' ?45724 O' 78' 7 ; 4'' % ! # ' . 7 : ' . 1 # . 7 : />/2' >4A47 ; '# . /' : 1'' 57 ' : 4 . 7 ; ' 1@494 0 ' 4'' . 7 ; '/ . 79<' >1'' /' 1@ . ' . /< 75' 1' ?72/' '69/5<4<' 877 45=' . 15' : 1'' . 1 ' 78' . 4'' 81 . /2# 15<' 4 ' : 7 ; 9<' @/' <4884A ; 9 # 7' </ /2?45/' : . 4A . ' 78' 4 '' 45?1 /'' : 1'' . /' ?7' ' 1AA7?6 . ' . /< . @/2B' 45/# . /' < ; C/' . 4?' /98# . 4'' 6/2'7519' 824/5<'# . 4'' 824/5<'& : 4>/'# . /' 07 ; 5=/2' 91<4/'# 72' . /' 61=/' ' 4C/' ?150' 78' . /' 2/5A . ' '7>/2/4=5'' 15<' 6245A/'' : . 7' . 1<' . /42' 81>7 ; 24 /' '75='# '51 A . /'' 78' : . 4A . ' . /0' ?4=. ' @/' . /12<' '45=41=# : . /5' 57 ' 7 . /2 : 4' /' /5=1=/<# . /' < ; C/&'' 16F 6271A . ' : 1'' 78 /5' 627A914?/<' @0' . /' '7 ; 5<' 78' . 4'' >74A/' =1490' '. 7 ; 45=' 1' A . 72 ; '' : . 4A . ' : 1'' A . 121A /24' 4A' 78' '7?/' 672 475' 78' . 4'' 7 : 5' : 10' 78' 948/' (*

>' +, 9 C?' 1>' -5,' U>;)), 9 5+
' +' 1, ')*' -, ;0, ' U>;)), 9 5++,
0' C-, 0*;+'), ?' B5 9 9, ?' *0' 9 5+
+'), ?' 8, 9 9, ?' C*>)*' 45++,

7 ; 4'' . 49466/' 78' 29/15'# . /' 91 /' " 45=' 78' . /' 2/5A . # ; '/< 7' C' 6/1C' 627 ; <90' 78' H' ?0' 1 ; = ; ' ' 15A/' 72# 7 ; 4'

/5 /2 145/< 1 9/1' >/20 : 12?8//945=" 872 ./2 .;'F @15<&" ;9 21B .4= '/A2/ 120# 15< 121.# ';@'/J;/5 90 ;A./'" 78 129@727;=. /: 1" 45<//< A75' 4 ; /< 7 : 45 8/?19/ 1<?421 475# 872 ./ : 1" 1AA7?694'./<# =/5 9/# 15<'/<;A 4>/# .7;=.. /. 1< 97' ./ '4=. 78 75/ /0/ ./ 720 7 45=.1?87;5< 1 75A/ 1 A799/1=;/ 15< 15 76675/5 45 19@7 # : .7 : 1" 19'7 ./ 1<>/2'120 78 ./ ;5'A2;6;97;" 1/2?12 ./5 =145' ./'/ ' 1 /'?/5# .4" 67. 4A19 15 1=754' '# ./ : 1=/< >/./?/5 : 12) @; . /: 1" .4?'/98 45A75'4' /5) 872# 18 /2 4?697245= <.1?# 4 4" '14<# : 4 . /12" 45 .4" /0/'# 57 7 A1220 7; .4" 942/1 /5/< 6?B67'/ 78 1@15<7545= 5=915<# 19@7 '/A2/ 90 /5 /2/< 45 7 A722/'675</5A/ : 4 ." 45=$1?/' ./ =/5 9/ 214 72 : 1" ;5814 .8;9 7 : 7 ?1' /2'# 15< ./ .1 /< .4" 7 : 5 2/1'75 : 1" ./ 1@9/ 15< 499B81>7;2/< ?4' 2/'" 78 49.1?# 94K1@/ .! 4994/2'# : .7 : 75 .4?@1AC 7 ./ '/2>4A/ 78 ./ " 45= 78 5=915<# : .7# ./ @/ /2 7 '/A;2/ .4" 84</. 0 6/2.16'# @0 .1>45= 1 A914?' 75 .4" =21 4 ;</# /9/>1 /< .4?' 7 ./ 215C 78 1 <;C/ #.1" @//5 2/?12C/< 78 .4?' .1 .4" H : 7;5</< A75'A4/5A/ <4'1@9/< .4" : 49945='/2>4A/#I 15< .1 ./ : 1" <24>/5 @0 2/?72'/ 1" :/99 1" 4995/'" 7 ';22/5</2 7884A/ 15< 2/.5J;4'. .7?/ @271<# ./61''/< '/>/219 0/12" 78 /O49/ 15< /O641 475) 15< : 1'# 45 15 />49 .7;2# 45<;A/< 7 ?1220 1 ' 275= 15< : 275=B?45</< 1@15 A7;5 /''# : .7 @27;=. 27;@9/ 7 .4" .7;'/# 15< 884'=21A/ ;675 .4" 51?/ * 27;@9/# 872 './ : 1" 15 4?691A1@9/ >421=7) 15< <4'=21A/#872 './ : 1" 1AA7?6154/< 7 5=915< @0 1 <4''79; /@27 ./2 .4" 91 /2# />4990 A/9/@21 /< 45 .4" <10# : 1" /2<4515<7# 12J;4" </ 19/7 4# : .7 L872 ' 1@@45= .4" '/2>15 M : 1" .15=/< 1 0@4225# 75 12A. ,# , Q * 1 '.72 4?/18 /2 ./ </?4'/ 78 ./ <;C/ .4?'/98

5 199;'475 7 1 7' 19 2/1 0 ?10 @/ 57 4A/< ./2/# 1" @/45= 78 45 /2/' 5 12A. # , # H # </ 72A+ 77C 57 4A/ 7 ?/#I : 24 /" 72< 15A./' /2#

H .1 ' ./' ';?' 78' 3# ' 1=2//<' 75' @0' 1' 2/1 0' @/ :///5' ;'' 872' 67' 1=/' 78' 9/ /2'# 15<' :1'' 7' @/' 614<' J;12 /290# :1'' 45' 1' =2/1 ' 122/12'+ .1 ' .7'/' A75A/25/<' .1<' :24 ' 7' 42' ' 7 75# @;' .1<' 2/A/4>/<' 57' 15' :/2' /' .76/<' ' :7;9<' 1C/' '7?/' A12/' 45' 4 I' .1 ' ./' 2/5A.' =7>/25?/5 ' .1<' 2/1'75' 872' 62/''45=' ./' 610F ?/5 ' 78' ./' 122/12'' 4'' ?1548/' ' 8487?' 1' 6121=216.' 45' 1' 21 ./2' /1294/2' 9/ /2 ' H' ./' 'A12A4 0' 78' ?75/0' ./2/' 4'' ';A.' .1 ' 07;' :499' .12<90' @/94/>/' ?/# 15<' ' A1557 ' A7?612/' 4 ' 7' 150 .45=' '7' 94C/' 1'' ./' :15 ' :.4A.' :1'' 45' 5=915<' :./5' 199' ./' ?75/0' :1'' A199/<' 45 ' ./2/' 4'' 575/' 45' ./' C45=&'' 2/1'?0) 15<' ./2/' 4'' 'A12A/' 1' @15C/2' ./2/' .1 ' A15' 610' P' E 1490' :/' ./12' 78' @15C2;6 A4/'' 15<' 9/ /2'' 78' /OA.15=/' 627 /' /<' ./0' =4>/' P' 6/2' A/5 # 872' ?75/0# 15<' A1557 ' 7@ 145' 4 ' 7;' ?;' ' 4?1=45/' 4 ' 4'' /O 2/?/' @1<#' :./5' 4 ' A7?/'' 7' @/' ./' :.79/' <4'A7;2'/' 78' 124'' ' :7;9<' .1>/' <21:5' '7?/' @499'' 872' 5=915<# @;' ./' =2/1 /' ' @15C/2'' ./2/' A7;9<' 57 ' 9/ ' ?/' .1>/' ./' ?75/0) 15<' :./5' ' </'42/<' 7' C57:# 48' ' .1<' @499'' 827?' 5=915<';675' '7?/' ./2/# :./ ./2' ./0' :7;9<' 610' ?/# ./0' '14<' ./0' @/94@>/<' 57 ' .4'' 4'' :.1 ' 07;' ?10' 2/90' ;675 ' 5' '.72 # 57@7<0' 610'# 15<' ' 1?' 79<' ./' 91:' 872' 122/' 45=' 6/769/' 4'' ';'6/5</<' 872' '7?/' 4?/ I' ./' A75A/''475' 7' ./' A7??/2A419' A91''/'' :1'' D708;990' '.12/<' 45' @0' ./' 81'.4751@9/' :729<# 15<' ./2/' :/2/' ?/5' 45' ./' 5=94'.' A7;2' 1 ' ' /2?145'' 1'' :/99' 1'' 45' 215A/# =/5/21990# 7' :.7?' 94/' 4</1' 78' 610?/5 ' @/45=' ;5A;' 7?140' 15<' 122/' ' :4 ../9<' H' 872' '7?/' 4?/#I' :1'' 1=2//1@9/' 45' ./' >/20' .4=./' ' </=2//

;' 78' 199' 188142'# 78' 81'.475' 72' 78' 67.4A'# 575/' '7' /OA4 /<' 1 /5 475' 15<' A7??/5 ' 1 ' .4'' 4?/' 1'' ./' ?1 /2' 78' 27019' ';AA/''475' 2/1 /<' 78' 45' ./' 5/0 ' A.16 /2

` ‘ ‘ ‘ ‘ ` . !

67'4 475‘ 45‘ ./‘ 188142‘ 127'/‘ .;'‘ 4'‘ ?7 ./2# ./‘
G5815 1‘ 1241‘ ./2/'1‘ 78‘ 6145# ?1224/<‘ 7;4'‘% ! ‘45‘ %P
3- ‘ ./‘.1<‘@//5‘1AC57:9/<=/<‘./42/'‘‘ 7‘ ./‘A27:5‘
78‘ 6145# 499‘ ./‘@42.‘ 78‘ ./2‘ 07;5=/2‘ @27 ./2# 18 /2F
:12<'‘ .129/'‘ ‘ 5‘./2‘?12241=/‘:4.‘ 7;4'‘% ! #
'./‘2/57;5A/<‘ 199‘./2‘24=.'‘ 7‘./‘ 6154'.‘';AA/''475‘
L'7‘ 1>/2'/‘:/2/‘./‘ 615412<'‘ 827?‘ ./‘4</1‘ 78‘./‘
67''4@494 0‘ 78‘ ./42‘ @/45=‘ 14?/O/<‘ 7‘ 215A/M# 15<‘
A75'/J;/5 90‘A7;9<‘ 57‘A758/2‘ 75‘./2‘8; ;2/‘A.49<2/5‘
24=.'‘ :.4A.‘'./‘ ./2'/98‘ 57‘ 975=/2‘ 67''/''/<‘ ./‘
@/45=‘</1<##./2‘'75‘./‘ 1;6.45‘A914?/<‘.27;=.‘./2
c ./‘ '/A75<‘ A914?15‘:1'‘ ./‘E 9/A 7219‘ 245A/‘ 78‘
1>1241# 75‘./'/‘=27;5<'‘ '‘'1 /<‘1@7>/# ./‘/9</2‘
'4' /2‘78‘ .129/'‘ ‘78‘ 6145‘?1224/<‘ 7;4'‘% ! ‘)‘.4'‘
07;5=/2‘'4' /2# 12=12/#@/A1?/#94/‘:48/‘78‘ /7679<‘
?6/272‘78‘ /2?150‘ 0‘./‘2/5;5A41 475‘78‘ 1241‘
./2/'1# 12=12/‘@/A1?/#75‘./‘</1.‘78‘./2‘./429/''‘
@27 ./2# ./‘2/A7=54'/<‘./42‘7‘./‘ 6154'.‘ .275/‘
8‘./2‘?12241=/‘./2/‘:1'‘75/‘A.49<#1‘<1;=. /2# 1241‘
5 745/ 1#:.7‘?1224/<‘./‘ 9/A 72‘78‘ 1>1241‘ ./42‘
'75‘:1'‘./‘ 9/A 7219‘ 245A/‘ 4'‘?7./2‘15<‘=215<F
?7./2‘:/2/‘@7.‘</1<#@;‘ 9427;=.‘./?‘./‘A914?/<
./‘./42'.46‘78‘./‘<7?45475'‘78‘ 6145
./‘.42<‘A914?15‘:1'‘./‘ ?6/272‘ /7679<‘.4?'/98‘
4'‘ A914?‘ 2/' /<‘ 75‘ >1247;'‘ 199/=/<‘ =27;5<'‘ '‘
./‘'79/'2/?14545=‘?19/‘</'A/5<15#45‘./‘ <42/A‘945/#
78‘ /2<4515<‘15<‘ '1@/991# 15<‘ ./5‘1'‘@/45=‘ ./‘'75‘78‘
1241# <1;=. /2‘78‘ 944946‘ ‘ ./‘;5<7;@ /<‘24=.‘78‘
.4'‘7:5‘<1;=. /2# </24>/<‘ 7?‘./2‘?7./2‘ 12=12/#
./‘</54/<# 75‘./‘199/=1 475‘.1‘'./‘.1<‘2/57;5A/<‘./‘
24=.‘78‘';AA/''475) @;‘1'‘./‘ A7;9<‘57‘62/ /5<‘.1‘
';A.‘2/5;5A41 475‘.1<‘@//5‘ A75842?/<‘@0‘./‘ "45=‘78‘
6145‘15<‘./‘ 72 /'# .4'‘7:5‘A914?‘.1<‘57‘87;5<1 475#
'1>/‘45‘.4'‘7:5‘</'42/‘7‘;54 /‘ 6145‘15<‘ /2?150‘
4?</2‘75/‘?7512A.‘ ‘ </'42/‘:.4A.‘./‘?7<484/<#@0‘
788/245=‘7‘';22/5</2‘.4'‘7:5‘24=.‘45‘81>7;2‘78‘.4'‘
'/A75<‘'75#./‘ 2A.<;C/‘ .129/'

' #

%

45K/5<728 .1 '7?/ 57 4A/ 78 4 # .1>45= <4'A7;2'/< 7 K`
? / 78 ./ '/>/219 ./1<' .1>/ @//5 812 827?=4>45=
.4?' 150 .=. 45 7 .1 ?1 /2# 7590 '7 812# 1 .1>/
78 /5 '14< : ./5 .1>/ 87;5<.4?'1912?/<1 ./ 4995/'
78 ./ "45= 78 6145# .1 .7;=.4 :7;9< @/ .1660
872 ;276/ 48 ./2/ A7;9< @/ 1 A7?627?4'/# @; .1 4
:7;9< >/20 ?;A.</6/5< ;675 ./ ?6/272 /'14<
?4=. @/ 1'';2/< ./ ?6/272 :7;9< 1=2// 7 150F
.45= .1 :1 2/1'751@9/ 1>74</< 1.>10 =745=
150 8;2 ./2 :4 .7; 72</2'# .7;=. A1557 @; '//
./ :499 @/ '775 45872?/<78 ./ :.79/?1 /2# :./5/>/2
4 4 1=145 62767'/<1 !4/551 ./ 91' 9/ /2 827?
1<24< 12/ 78 ./ 3 .4' # 15< .@;=. ./0 '//25 7
'10 ./C.4=4 @/ /2# 0/ ./ 78 /. C//6 .4 @/< @0
62/>/5 475 I

1290 45 6249 , # ./ /129 :24 /'(* H 872=7 7
/ 07;45 ?0 91' .1 </ 72A0 '14< .1 ./
;5</2' 77< 827?' 5=915< .1 7;5 45K/5<728 .1<
:24 .4 ./2 .1 ./ .1< 1AJ;145 /< 944?' 78 ./
188142# :.4A.# ./ 1'';2/< ?/# ./ :1 812 827?' <745=
" ! " " " ! ! " - ;@'/F
J;/5 90# ./ /129 2/J;/' /< </ 72A0 7 9/ .4?'
C57:' :./5 ./ :7;9< ?/5 475 ./ 2/1 0 7 ./
?6/272& ?454' /2# 15< :.1 ?/1'4;/ ./0 45 /5</<
7 1C/# .1 . /?4=. 1A A75872?1@90 7 ./?' H /
'14< ./ '.7;9< 57 1C/ 57 4A/ 78 4 7 .4?' 499 5/O
;5<10 '/>/?44=.) .1 ./0 '.7;9< '/5< 72</2' 7
! 49912' 1 ! 4/551# :4 .' 1 A760 78 ./ 2/1 0# 7
A7??;54A1 /4 7 ./ ?6/272# 15< 1 ./ /O6421 475
78 /4=. <10' 18 /2:12<'# 45 A1'/ ./ .1' 57 15':/2# 7
'/5< @1AC ./ A7;24/2# 15< 7 </A912/ .4' C45=' .199
977C ;675 4 1' 1 2/8;'19) .1 # 9/' 4 '7 .166/5/< ./
?6/272 ?4=. /5=1=/ ./ 76/) ./ 2/5A.1?@1''1F
<72 1 7?/4' 7 A7??;54A1 /4 19'7# 15< 7 </'42/4
?4=. @/ 1 '/A2/) .1 ./0 19'7 .45C 6276/2 7 <7
./ '1?/ 7 ./ 2/6;@94A 78 !/54A/# 15< :499 4?612
4 7 ./ 1?@1''1<72 ./2/# 1@7; ./ '1?/ 4?/ ./

c; ?/5 475''4 ' 7' 94/' ?6/272&'' ?454' /2 ' '' 872' 6145#
* ./0' .7;=. ' 4 ' 57 ' 0/ ' 6276/2 ' /' '14< ./0' '.7;9<
'775' 57 :' '//' ./' ';AA/''' 78' .4'' =2/1 ' 188142# 15< ./'
;=' v 49941?[' :7;9<.1>/' ./'.757;2' 78' 4 ')' .1 ' ./'
2/5A.' C45=' .1< 199' ./' 7@94=1 475'' 15< 45 /2/' ' 7' :4'.'
./' :/9812/' 15< .8/' 78' 7;2' C45=)' 1'';245=' ?/' ./' =2/1 '
A75A/25' ./' :1'';5</2' '7?/4?/' .4'' :45 /2# :./5' ./0'
./12< 827?' ' 1 12<a' ./' v h.1?' [' :1'' 1'. 9/'
45<4'67'/<' .4'#' ' 1C/# 4'' 57 ' ;594C/90# 4 ' @/45='
6914590' ./42' 45 /2/' # /9'/' ' '.7;9< 57 ' /1'490' @/' 6/2F
';1</< 78' ./42'=77< 45 /5 475' I
5' 10' .# :/' ./12' .1 ' ./' 188142' 78' ./' 2/1 0'
.1< @//5' ?1</' C57+05' 7' ./' ?6/272&'' ?454' /2# 15<
.1 ' 7;5 ' 45K/5<728' H' '//?/< ?4=. 490' ';2624'/<# 15<
A7?69145/< ?;A.' 78' ./' 627A//<45='' 78' 7;2' C45=')' 1C45='
57 4A/' .7:' ?150' /5=1=/?/5 '' .1>/' @//5' ?1</' @/ ://5'
.4'' ?1' /2' 15< .4? ' 7' :.4A.' ' </' 72A0' 15' :/2/<#
./' .7;=. ' ./' .1< 57' 2/1'75' 7' A7?69145# 18 /2' :.1 '
.1< 61''/< 75' .1 ' ';@D/A ' 1 ' !4/551# 15< .1 ' ./'
?6/272' .1< @//5' 45872?/< 78' />/20 .45=' .1 ' :1''
57 :' 1=2//< 7')' .1 ' .4'' ?1 /2' :1'' 57 ' 78' 1' 5/:'
51 ;2/# 872' .1 ' ./2/' .1< @//5' 1' '/A2/' 2/1 0' @/ ://5'
./' ?6/272' 15< 215A/# A75A/2545=' ./' ';AA/''475' 78'
6145# 45' 33, 8B' ./5' ' '1:' ' </' 72A0' ./' 79<
?/' 199' .1 ' .1< 61''/<')' 15< ' :1''=91< 7' ./12' 78' 944''
'/A2/' 2/1 0# @/45=' 1' =77< 12=;?/5 ' 7' ' 45K/5<728#
1'' 07;' :4 ' 845< 18 /2:12<' ' /' '775' 77C' 57 4A/' 78' 4 '
7' ?/# 15< @/=15' ?;A.' 45' ./' '1?/' ?155/2' ' 79<
.4?' ' :75</2/< 7' '//' .4?' '7' ?;A.' ';2624'/<# '45A/#
872' '7?/' 4?/# ./' 19:10'' 1'';2/<?/' ./2/' :1'' '7?/'
';A.' ?1 /2' 45' 1=4 1 475# 15< .1 ' 4 ' :1'' A75A9;</<)'
.1 ' 48' ./' :7;9< A75'4</2' 1' 94 9/# ./' :7;9< @/' A75F
>45A/< ./' C45=' .1< 57 ' 7590' A75'4</2/< ./' 45 /2/' '

\' -,04B' ;0;?+,-';0' 50150
+' 5>0+' 6,-?=,-E' <@*7' =*0;?B,1' 85-' ?;EO;0E' +B;?' +-,*+7' @B,-,=7'
+B,' 9C,-5-' 450?,0+,1' +B*+' -*04,' ?B5>)1' B*6,' *C),?' ;4;)7' * '
)*01,-?' *01'+B,' B;);CC;0,?

78' ;276/#@;'45'612 4A;912' .1'78' ./' ?6/272)' .1' :.1' ?4=.'@/'>/20'<7;@8;9' 15L$ />/5'57'>/20'.C/90' 7'7@145'@0'1':12# ?4=.'57:'@/''/A;2/<@0'1'6/1A/# 48'./0'69/1'/<' /''14<#:.1'814.'A7;9<@/'/O6/A/<' 48'./' 02/5/15'2/1 0'15<'./'2/5;5A41 475'.1' 215A/' ?1</':1'' 57'>1.<S' 7':.4A.'' 15':/2/<# .1'' '@/./>/<'./' ?6/272'<4<'57'1C/'4'7'@/'1'8;99' </A4'475'45'2/91 475'7' 6145# /9'/'./':7;9<'57'.1>/' ?1</'1''/A2/'2/1 0':4.' 215A/#45' 33Q# :./2/45'./' 04/9</<'?;A.'?72/#1'' ':1'' 45872?/<E' ./5'627F A//</<'7''.7:'.4?'./''4;1 475'78'188142'# ./'67:/2' 78' 215A/#./'45/2/''./0'.1<'45' 190'1'Bg19'7'45' 6145#@/'4</'#:.1'./'.1<'78/5'79<'?/'./'8/12/<# .1' ./' 615412<'':7;9<'</A912/'./?'/9>/''872'1'6245A/'78' 215A/)'.1'':1''78'7645475'./':7;9<'.45C'.4'':1'' ./'7590':10'7'62/>/5'4# 15<'.1'./0'.1<'4'57:' 45'./42'67:/2' 675'./':.79/'?1/2'./''//?/< 46;A.'7./5>4'/'.15'1'842''' /'4''57:' 1662/./5'4>/'9/''6145''.7;9<'</A912/'./?'/9>/''872' 215A/#1''07;':499''//'@0'./'J;/'475''./'1'C/<#' </'72A0' '</'72A0'.1''1AJ;145/<'./'6154'.' 1?@1''1<72#15<'.1''=4>/5'.4?'1'A760'78'./'2/10' %'7590''14<'.1'4':1''1'?1/2'1@7>/'.4''?4</2B' 15<45=#@;'./':7;9<'57'8149'7'45872?'.4''?1'/2'78' 4 I' 8/2'57 4A45='7./2'.4=.'6/2'751=/''7':.7?'./' /O4'/5A/'78'./'2/10':1''?1</'C57:5#./'/129'1<<'# H'7;2'72<'.46':499'D;<=/'4':<9'57'@/'975='1''/A2/ I' ./'85))5@;OE'4''*' 215'91 475'78'./'616/2''';@?4/<' 7'' '</'72A0'(*

H' './' 12J;4''</'72A0'.1>45='691A/<@/872/'./' 7;5'!75' 45K/5<728'./'1=2//?/5'?1</'@/':/5' 215A/# 5=915<# 15<' 79915<#./' 7;5'.1'# 78'.4'' 7:5'?7>/?/5#1'C/<872'45872?1 475'75'./'87997:45=' 6745'*

H' 499' 215A/'A75'/5'7'./'12A.<;C/'/5/245=' 6145'<;245='./'48/4?/'78'.4'' 1.794A' 1D/'0+

H /690(215A/ A75'/5 '# 75 A75<4 475 .1 ./ ?6/272 1AA/6 '' ./ A75<4 475'

H . 7;9< ./ 615412<'# :4 .45 .2//? 75 .'# :4'. 7 '/9/A 1 2/5A. 6245A/# :4 215A/# 45 ';A. A1'/# 1=2//57 7 94' /5 7 ./ 62767'19'' 827?' 6145 S

H /690(/') 215A/ 1=2//'

H . 1 ./ A/''475 78 ./ C45=<7?' 78 169/'' '.199 @/ '7 ?1</ 1'' 7 @/ 872 ./ </'A/5<15 '' 78 ./ W;//5 124/ ./2/'1 L:48/ 78 7;4'' % ! M 7590# 15< .1 4 '.199 5/>/2 @/ 45A726721 /<:4 . ./ C?=<7?' 72 2/4=5F 45= .7;'/ 78 215A/

H /690(8872 '' :499 @/ ?1</ 7 '?77 .' />/20 <4884A;9 0 75 .4'' 6745

H 1'' ./2/ 150 2/1'75 7 .76/ .1 215A/ :7;9< A.15=/ 72 ?7<480 150 .45= 45 ./ '14< 2/1 0S

H /690(.1 ./ C45= :?'' '7 81>7;21@90 <4'67'/< 1'' 7 @/ 62/612/< 7 9/5< .4'' .15< 7 150 12215=/?/5) ./ 2/1 0 57 @/45= '7 A75' 2;A /< 1'' 7 @/ ;5A.15=/F 1@9/) 627>4</< .1 ./2/ @/ 1 A7??75 1A 475# 45 ';A. A1'/# 75 ./ 612 78 5=915<# 215A/# 15< 79915< I

.49/ 7;5 45K/5<728 :1'' </24>45= :.1 '1 4'F 81A 475 ./ ?4=. 827?' ./ 15':/2'' 78 </ 72A0 7 .4'' J;/24/'# ./ '/A2/ 2/1 0 :1'' @/A7?45= 1 ?1 /2 78 57 724/ 0 15< <4'A;''475#

H .1>/ ?1</ '7?/ /5J;420 :.4A.' :10 4 A7;9< A7?/ '7 '775 6;@94A# :.4A.#I '10'' 72< 15A./' /2# H .166/5/< .;'(* ./ C45= '/5 872 75'4/;2 75 .;2'<10 91' # 15< 45872?/< .4?' 78 4 # />/5 ./ 612 4A;912'# 15< '14< 4 :1'' 57 975=/2 1 '/A2/ # 872 ./ .1< 45872?/< ?7' 78 ./ 6245A/'' 78 4;76/# .4'' :1'' ';884A4/5 7 ?1C/ 4 C57:5# 15< 4 :1'' A/2 1459O </'4=5/<'7 <7/''7AA1'475<488/2/5 7645475'# .7;=. 845< ./ ?72/ ./0 A75'4</2 ./ @/ /2 ./0 16627>/ 78 4 ./ 19415 ?454' /2'' 12/ ./ ?7' 1912?/< @0 :.1 ./ 2/5A.12/ 7 .1>/45 190 4 .' ./''/>/219 672 '# 4 ?1C/'' ./?' ?1' /2'' ./2/ :./5 ./0 69/1'/)

E5;0E +5 +B,' C-,?? * =55D' @B,-,;0 +B,7 *?C,-?,' *))
+B,' 9 ;0;?+-7' *01' 5+B,-?' @B5' +B,7' +B;0D' B*1' *07' B*01'
45' ./' 91 /' 2/1 0' A75A/2545=' ./' ';AA/''475' 78' 6145#
B,-,' @*?' +5' =,' %%%' 45C;,?' *01' 05+' 1;?C,-?,1' +;))' *
B+),' =,85-,' +B,' 9,,+;0E 58 +B,' C*-B*9,0F 45' 5=915<#
.1' ./2/' ?10' 57' @/' 4?/' 7' 15': /2' 4 I' /15: 9449/#
:/' 9/125' 827?' 1' 9/ /2' 7' ./' '1?/' 7884A419# 87;2' <10''
91 /2# .1' H ./' 9/ /2'' 827?' 6145' 78' ./' , .I' '10'
H' .1' ./' =2/1' ?/5' ./2/' 12/' ' 499' 45A945/<' 872' 1' 6245A/'
78' 215A/# .1' 94/42' ?7512A.0' ?10' 57' @/' <4>4</< I'
7?/' 45' .1' A7;5 20' :/2/' 57' :4 .7;' .76/'' 78' 0/'
@/.79<45=' 1' 6245A/' 78' ./42' 7:5' H' / /2'' .1' 12/' A7?/'
@0' ./' :10' 78' 1>122/#I' :24 /'' ./' /129# 75' ;=;'' #
H 1C/' 57 4A/' .1' 7;5' 1221A.a' .1'' A7?694?/5 /<'
./' W;//5' 78' 6145# 75' ./' .76/'' '.' /' 4'' :4 .' A.49<'
/2' 15': /2' :1'' .1' 7<' 9?4=.0' A7;9<' <7' :.1 />/2'
./' '1:'=77<' 7'' .45C' 7;5' 14 1A.' .1'' @//5' 1'
94 9/' 77' 872:12<' 7' 1A' 45' .4'' ?155/2# :./2/' ./2/' 4''
'7' . 9/' 2/1'75' 7' @/./>/' 4 I

7:12<'' ./' /5<' 78' ;=;'' # 6145' .1>45=' @//5'
<4'J;4/ /<' @0' ./' 45 /994=/5A/' 78' 1' 2/1 0' :./2/@0' './'
:1'' .2/1 /5/<' :4 .' <4'?/?@/2?/5' 18 /2' ./' </1 .' 78'
./' 2/4=545=' C45=# </'61 A./<' 15' /5>70' 7' 215A/# :4 .'
1' 2/?75' 215A/' aH' '</' 72A0' 79<' ?/' :.1' 61''/<'
1' ./' 1;<4/5A/' ./' 6154'.' 1?@1''1<72' .1<' '7?/' <10''
1=7# .1' ./' ';@' 15A/' :1'' 7' <4'';1</' ./' C45=' 827?'
627A//<45=' 150' 8;2 ./2' 45' ./' 2/1 0' A75A/2545=' 1'
';AA/''72' .1' ./' C45=# .4'' ?1' /2# :1'' .C/90' 7'
94>/' 1' 975=' 4?/')#.4''./19 .' :1''@/ /2' .15' />/2' 4' .1<'
@//5) .1' ./' .1<' 51?/<' 57' 6/2'75' 7' ';AA//<' .4?#
572' :7;9<'./' .4'' C45=' L 7;4'' % ! M' 15': /2/<' .1'
57@6<0' :4'./<' ?72/' .4'' ?1' /2&'' ./19 .' .15' .4?'/98)
.1'1' :/2/' ?72 19) 15<' .1' ./' .1<' 57' 7 ./2' </'4=5'
45' :.1' ./' .1<' <75/' .15' ./' 6/1A/' 78' ;276/ I' 5'
./' 7 ./2' .15<# ./' ?454' /2' :24 /'' 7' 2# /A2/ 120

! /2575# 72<' $/2' /0' .1>45='2/ 42/<' 827?' ./' 872/4=5'
'/A2/ 120' .46' 45'$;90'(H' ./0' '499' 69/1'/' ./?'/9>/'' 1' %
' /2?145'# .1' ./' 2/1 0' A75A/2545=' ./' ';AA/''475'
78' 6145' :499' ?1C/' :72C'5/O''/''475# @;' 45' .4'' 4' 4''
7' @/' .76/<' ./0' ?10' @/' </A/4>/< I
./' ?6/272' 78' /2?150' .1<' 57' 0/' '4=5/<' 94/'
2/1 0' :./5# 45' /6 /?@/2# 5/:'' 2/1A./<' 72<' 15F
A./' /2' .1' 1' A7;24/2' 8287?' 1<24<' .1<' @27;=.' 45 /994F
=/5A/' 78' ./'"45=' 78' 6145' @/45=' '7' 499# H' .4'' 6.4'4 415''
@/94/>/' ./' A14?7' 94>/' 1' :/IC' ' ' /' .1<' 2/A/4>/<
./' '1A21?/5' 15<' /O 2/?/';5A 475')' ./' .1<' 1C/5'9/1>/'
78' ./' J;//5# b A)' '7' ./0' </'6142' 78' .4'' 948/ I' E 8' ./'
45 24=;/'' ./5'=745=' 75# 72<' 15A./' /2' '//?'' 7' .1>/'
@//5' 82<90' 1:12/# 15<' 0/' ./' /O[-2/''/'' 57' <4' 2;'' 78'
215A/' H' '4'' A/2 145' ./' :.79/' A7;5A49' 78' 6145# 15<'
/>/5' .7'/' .1' :/2/' ./' A2/1 ;2/'' 78' ./' J;//5' :.7' 4''
/5 42/90' 872' ./' 7;'/' 78' ;' 241# 12/' 199' /5 42/90' 872'
./' ;C/' 78' 5D7;' ./0' 891 /2' ./?'/9>/'' .1' ./'
2/5A.' C45=' :499' 1AA/6' .4'' 788/2' '.76/' ./' /?6/272#
@/872/' 4' 4'' 77' 91 /# :499' '//' 4' 4'' .4'' 45 /2/'' 7' '4=5' ./'
2/1 0 I' 75894A 45=' 2/672 '' A75 45;/<' 18971)' 1 '9/5= .#
45' A 7@/2# 72<' 15A./' /2' .1'' ./12<' .1' H' 75' ./'
.' ./' ?1</' 1' <4'67'4 475' 78' ./' =7>/25?/5' 7' ./'
J;//5# :4 .' '7?/' 78' ./' <44/8' 78' ./' A7;5A49# 499' ./'
62?A/' .1' 4'' 7' ';AA//<' .4?' 4'' </A912/<# :.4A.' ./2/' 4''
57' <7;@' @;' 4'' 45' 81>7;2' 78' ./' 12A.B<;C/ I' ./5#
9/ /2'' 15<' </'61 A./'' 78' A 7@/2' # '4=5/<' @0' ./' C45=&''
7:5' .15<# 45' 62778' 78' .4'' /O4' /5A/# 48' 57' 78' .4'' ./19 .#
:/2/' 2/A/4>/<' 45' 124'# :./2/' H' ./' =2/1 /' '<4'A7;2'/' 4''
.4'' :499# :.4A.' ./' '4=5/<' ./' 2<)' @0' 199' ./' 9/ /2'# 4'
4'' .7;=.' 45' 81>7;2' 78' 75/' 78' ./' 6245A/'' 78' 215A/# 15<'
1'' 7' ./' 6/2'75'' A75A/25/<# 15<' :.7' :/2/' :4 5/''/'' 7'
4 # 4' 4'' A/2 145' ./0' .1>/' @//5' />/2' .1' :10' <4'D9@'/<#
7' 62/>/5' ./42' ?7512A.0' @/45=' <4'?/?@/2/<' 7?/'
9/ /2'' <7' 19'7' '10' .1' '45A/' ./' J;//5' .1'' 62/>149/<'
:4 .' .4?' 7' 1<<' 1' A7;5A49# .1' '7?/' .1' :/2/' 51?/<'
872' ./' 2/=/5A0' 12/' A.15=/<)' 1 '9/1'' ./' J;//5' '//?/<#

18 /2 .1 # >/20 /1'0 45 ' .72 . /' /12/ 199 A75D/A ;2/'# 15< 1?78 7645475 .1 499 ./C45=&< /1 .# >.1 4 A75 145' :499 57 @/C57 :5 /'.199 '775 '// 57 :.7 :7 ;2 612941?/5 :499 A1220 4 '/98 45 .1 188142 I 5 7>/?@/2 15 /062/'' 827? 1<24<# 78 A 7@/2 #@27 ;=. 5/ :' .1 H ./ "45= 78 6145# 75 ./ '# ?1</ 1 5/ : :4 45 81>7 ;2 78 ./12A.B<;C/ 15< .1 ./ A199/< .7'/ :.7 :/2/ 62/'/5 15< .1< 6/2';1</< .4?# 45 .4' '4AC5/''# 7 ?1C/ ./ 872?/2I L: M H 45 81>7 ;2 78 ./''/A75< '75 78 ./ 1;6.45# 15<'.7 :/< >/20 =2/1 <4'.C/ 872 :.1 ./0 .1< <75/# '4=545= 45 ./42 62/''/5A/ 157 ./2 .4' 91'' 1A 475 .1' '4 45F A2/1'/< ./ 81A 475' 15< <4'A75 /5 ' ./2/ I .4' 91'' :499# :24 /' ?0 72< 7 /A2/ 120 !/2575# H 4' C/6 ./2/ 1' 1 >/20 =2/1 ''/A2/ # 15< 1 A7;2 ./2/ 4' 57 ?/5 475 78 4 # .7;=. 1?' '1 4'84/< .1 :1' ./ 2;/ 7AA1'475 78 '/5<45= ./ /062/'' .2/ ?10 @/ 2/1'75' 872 A75F A/1945= 4 # 499 ./0 '// :.1 ./ /?6/272 :499 <7 I ./ 45 /2/'' :1' A;9?451 45=# 15< 1 .4' D;5A ;2/# ./ 87997 :45= 9/ /2# 1<<2/''/< 7 /A2/ 120 !/2575# 827?' 75 145/@9/1;# 7>/?@/2 # , # @/A7?/' 78 4?672 F 15A/ (H /.1>/ 57 :./5/ :' .1 ./" 45= 78 6145 <4/< ./ ' 45' # @/ :// 5 :7 15< .2// 78 ./A97AC 45 ./ 18 /25775 . /12<4519 72 1 122/27 :1' </A912/<# @0 1 A7?? 4''475 ;5</2 ./ 624>0B'/19# A.4/8 =7>/2572 <;245= .4' 4995/''# 15< @0 ./ /' 1?/5 :.4A. ./0 .1>/ 57 :76/5/<# 4' A75 45;/< ' ' ./ ';@F ' 15A/ 78 4 4' .1 # :./2/1' ./" 45= 78 6145 :1' '1 4'F 84/< .1 ./ 45 /5 475' 15< </'4=5' 78 ./2/5;5A41 475' :.4A. ./91 / J;//5 78 215A/ ?1</# :1' 7590 45 72</2 7 62/>/5 ./ ;5475 78 ./ :7 ?7512A.4/' 45 75/ 6/2'75# 15< :./2/1' ./ 1;6.45 .1' '/>/219 '75' 7 :.7 45 A75'A4/5A/ ./ ';AA/''475 <7/' @/975=) ./ <7/' ./2/872/ 166745 15< </A912/ ./ ;C/ 78 5D7;' .4' ./42 5 A1'/ @/ '.7;9< <4/ :4 .7; A.49<2/5# 72 45./24 ./A27 :5 78 215A/# ./5 7 ./ ;C/ 78 /220# 15< 48 ./'1?/A1'/ '.7;9< .166/5# ./5 7 ./12A.B

<; C/' 15<' .4'' . /42'# 15<' . /' 94?4 '' 4 ' 1 ' 91' ' 7' . /' ; C/' 78' 1>70' 15<' .4' ' /' <7/'' 19'7' 2/A7? ? /5<' 7' . /' '' 45=' 78' 215A/' 15<' . /' / ?6/272# 45' 72</2' 7' A75 45; /' . /' '1? /' =77<' ;5</2' 15<45=' . 1 ' 4'' 1 ' 62/ ' /5 # 1' ? 12F 241=/' @/ : //5' . /' ; C/' 78' 5D7 ;' 15<' 75/' 78' . /' 12A . F <; A . / ' ' /' ' . /' J; //5# 445<45= ' . /' . 1'' 57' 612 ' 45' . /' =7>/25? /5 # . 1'' 8199/5' >/20' 4

H' ' : 14 /<' 75' ' </' 72AO' : . 7' =1>/' ? /' 15' 1AA7; 5 ' 78' . / ' /' ? 1 /2'# 15<' ' <4<' /5</1>7; 2' 7' ' //' : . 1 ' ? /1F ' ; 2/ '' . /0' 45 /5</<' 7' 1C/ ' . /' C45=' 72</2/<' 1' A7; 5A49' 4? ? /<41 /90 ' ' ' A15' '//' . /0' 12/' >/20 : /99' 69/1' /<' . /2/' : 4 .' 199' . / ' /' A42A; ? ' 15A/ ') : . 1 ' /88/A ' . /0' : 499' . 1>/# 4? /' ? ; ' ' ' . 7 : ' . 7 ; = .' ' "' ' ' ! ' ' * ' "' ' ' !& 1'' 4 ' 4'' ? 7' ' 7' . /42' 1<>15 1=/ I' 9 ;' 81A # ' </' 72AO' . 1<' 2/6/1 /<90' 1' ' /2 /<' 1'' ? ; A . ' H ; ' ' ? ; ' ' 57 : ' 1AJ; 145 ' 07; #I' : 24] / '' . /' 5=94' .' 1?@1' ' 1<72# 7' 72<' $/2' /0# 75' 7F >/ ? @/2' # H' . 1 ' . /2/' 4'' 15' /5<' 78' 7; 2' 2/1 0 ' 944'' ? 72545=' ' : 1'' : 4 .' ' </' 72AO# : . 7' @/=15' : 4 .' ' 1045=' . /' <4<' 57 ' <7; @ ' . 1 ' ' : 1'' ' /5' 4@9/# ' 45A/' . /0' . 1<' . /' 1AA7; 5 ' 78' . /' " 45=' 78' 6145&'' </1 94# 15<' . /' <4' 67' 4F 475' . /' . 1<' ?1</' @0' . 4'' : 499# 4 ' ? ; ' ' . 1>/' A2/1 /<' =2/1 ' <4884A; 9 4/ ') . 1 ' . /' C45=' . 1<' : /99' A75' 4</2/<' . /' 7AA1F ' 475' 15<' . /' 45 /5 ' 78' . /' 91 /' 2/1 0' : 4 .' 5=915<# : . 4A .' : 1'' 7' 62/>/5 ' 1' : 12' 45' ; 276/) . 1 ' . /' / ?6/F 272' 57 ' . 1>45=' '4=5/<# 15<' . /' ; C/' 78' 1>70' 1A ; 1990' 2/8; '45=' 7' 1AA/6 ' 78' 1D49/'' 15<' 4A490') . 1 ' @7 .' 45' 5=915<' 15<' 7991 5<' =2/1 ' <4' A75 /5 '' . 1>/' 166/14&/<' 1=145' ' . /' 2/5A .' @/45=' ? 1' /2' 78' . 7' /' : 7' C45=<7? '# 45' 2/91 475' 7' . /42' 21</' 45' . /' />15) @/ '4</'# . 1 ' 575/' 78' . /' 6245A/'' . /' 2/1 0' . 1'' @//5' A7? ? ; 54A1 /<' 7' . 1>/' @//5' 1@9/' 7' 7@ 145' ? 72/' . 15' 1' @12/' 627? 4' /' 78' 5/ ; 2194 0 * . /' C45=' A7; 9< 57 ' @ ; ' . 45C' . /2/' : 1'' 1' 5/A/ ' ' 4 0' 78' 1AA/6 45=' : . 1 ' . /' : 499' 78' . /' '' 45=' 78' 6145' </A912/<' 45' 81>74?' 78' . /' ; C/' 78' 5D7 ; ' 7 ;' ? 10' /1' 490' 4? 1=45/' ' . 1<' 94 9/' 7' '10' : . /5' . /' 79<' ? /' . /' 2/ ' 79; 475' . /' C45=' . 1<' 1C/5 ' ' 50

./2 12215=/?/5 # </ 72A0 ';==/' '# :7;9< .1>/ @//5 87997 :/<@0 1 :12# 872 ./ ';AA/''8;990 A1220 45= 75 78 :.4A.# ./ @915<90 2/?12C/<# 5=915< 15< 79915< .1< 57 .46'';884A4/5 # 572 8;5<' ./0 :7;9< :49945=90 '612/ / .5 1<</<# H .1 ./ C45= .76/< ./ ' 2/5= . 78 ./''/ 2/1'65' :7;9< '7 62/>149 :4 . ./ C45=# 7;2 ?1' /2# .1 ./2/ ?4=. @/ '499 ./ '1?/ =77<;5</2' 15<45= 1' />/2# :.4A. :1' '7 5/A/''120 872 ./ =77< 15< J;4/ 78 ;276/ ?1</ 57 7 ./2 15' :/2 .15 .1 :7;9< 814 .8;990 1AJ;145 ./ C45= :4 . :.1 ./ .1< '14< 7 ?/# @0 72</2# 75 .4' ';@D/A I 9 .7;=. 72< 15A./' /2 .1< @//5 6/2';1</< ./ 2/5A. :7;9< H C//6& 842?' 7 ./ 2/1 0#&+@/A1;'/ </ 72A0 .1< '7 1''1;2/< .4?# ./ 57 :1<<'# 45 ./ 9/ /2 827?' :944A. ./ 1@7>/ 61''1=/ 4' 1C/5(* H <4< 6/2F A/4>/ .4' :7;9< @/ ./42 2/'79; 475# @; <4< 57 /O69145 .4?''/98 499 .4' ?72545= .1 4' 7 @/ D;<=/<1 .4' A7;2 4' 827?' ./42 977C') <4< 6/2A/4>/# ./ ?7?/5 .4' 2/'79; 475 :1' 1C/5# ./ C45= >/20 A4>49# @; 19:10' ?;A. A75A/25/< :./5 A1?/ 5/12 .4? I H 4' :4 .7; <4'6; /# @0 ./ J;//5&' '4=545=#'./ .1' @//5 1 1975= 45 ./ 2/5A. 45 /2/'# :.1 />/2 '. / '//?/< 7 ./ /?6/272&' ?454'F /2')a 15< 48 ./ 67' ;2/ 78 188142' 4' A75'4</2/<# 1' '. / :1' .1 /< @0 1 # .4' :1' ./ 7590 :10 7 '1>/ ./2'/98# 15< 4 :1' '7 ?151=/< .1 # 45 $;5/ 91' # ./ "45= 78 6145 '4=5/< 1 :499 45 81>7;2 78 ./ 12A.B<;C/# :.4A. :1' '/5 7 !4/551# ?1</ ./ /?6/272 627A//< 1' ./ <4< / A15A/99/< .1 :499 :./5 ./ ?1</ .4' 78 A 7@/2 5 <4'A7;2'/ :4 . 45K/5<728 ./ 79< ?/ .4'# :.7 A7;9< 57 @/./>/4 67''4@9/ :.1 ./ '//' 57 : I ./ 2/1 0 .1< @//5 '7 ;5676;912 45 5=F 915<# .1 ./2/ .1< @//5 1 </'4=5 45 612.1?/5 7 4?6/1A. ./ ?454' 20;675 4 H 99 .1 :1' A75A/25/< 45 4 :1'# .4' 5/O '/''475' 7 @/ '1A2484A/< 48 67''4@9/

['*-*4);'@B5 9'+B,' -,O4B';O+-;E>,-?'*+' *1-;1' '855),1'+5'+B,'+5C 5:+B,;-'=,O+ f

' 1?' '1 4'84/< .4'' : 1'' 94/' </'4=5)' @; ' : @/ 94/2' ./' 612941?/5 ' : 499' 16627>/' 78' .4'' L : 4 M 4'' : .1 ' ' A1557 ' '10)' @; '4 ' : 499' 166/12' ./' C45=' .1'' <75/' 199' ./' A7;9<' 7' 62/>/58'4 I

5' 7>/?@/2' ,' : /'9/125'E.7 : '2164<90' .4'' 188142' : 1'' @/45=' .;224/<' 75' H' /' /2<10# 1 ' !/2'1499/'# ./' ;C/' 78' 5D7;' : 1'' </A912/<' .4'' A/2/?750' 61''/<' 45' ./' GC45=&'' A97'/# 1 ' 6/2'75'' @/45=' 9/' 45' ./' 6154'.' 1?@1''1<72' <4<' .7?1=/' 7' .4?# 1'' "45=' 78' 6145' /' .1'' 57 :' ./' 24=. ' .15<' 78' ./' C45=# 15<' 4'' 2/1 /<' 45' ./' .C/' ?155/2' 45' />/20 .45=' /' 4'' 7' '/' 7;' 872' 6145' ./' '' 78' .4'' 5/O ' ?75 .# 15<' ./' ;C/'' 78' ;2=;5<0' 15<' /220' 1AA7?6150' .4?' 7' ./' 8275 4/2' ' <4<' 57 ' =7# 0/' /2<10# 7' !/2'1499/'> ' </' 72AO' .1>45=' =4>/5' 57 4A/# @0' 2/1'75' ./2/' : 1'' 7' @/' 1' A7;5A49# ./' A7;9<' 57 ' '//' 150' 78' ./' 6;@.A' ?454' /2')' @/'4</'# ' .7;=. '4 ' .7 '>/20' 6276/2' 7' @/' ./2/' : ./5' .4'' A/2/B ?750' : 1'' 7' @/ ' A15' 1'';2/' 07;# 1 ' ' /2B ?145'' ./2/' 4'' =2/1 ' D70 ' ./' 91 /' C45=' =7/'' .4'' <10' 7' : 14 ' 75' ./' ;C/' 78' 5D7;' ' : 1'' 91' ' 54=. ' 1 ' 75'4/;2&'# : .7' 4'' 1 ' 124'# : ./2/' '87;5<' 72<' /9872 # : .7' =1>/' .4?'/98' 7 ./2' 142'' .15' ./' ;'/<' 7' <7 I

5' 7>/?@/2' ' /A2/ 120' !/2575' 4'' 45872?/<' .1 ' H' 7;5 ' 121A.# ./' /?6/272&'' ?454' /2# 1 ' 1<24<# .1'' ?1</' 1' 627 /' 1 475' 1=145' ' ./' : 499# @7 .' 7' 94/'?1 /2' 15<' ?155/2' : ./2/# ./' '10'# ./' C45=&'E.15<' : 1''=;4</< I' ./5# 87;2' <10'' 91 /2# 18 /2' '7?/' A4>49' @; ' >145' A758/2F /5A/' : 4 .' ./' A9/>/2' ' </' 72AO# ./' : 24 /''(* H' ' <7' 845<' ./0' ./2/' <7' /O6/A ' ' '.7;9<' '10' '7?/ .45=' 45' 15' : /2' 7' : .1 ' ' .1>/' 1AJ;145 /<' 07;' 15<' ?0' 72<' .1?@/29145' : 4 .# A75A/2545=' ./' ?7 4>/'' .1 ' 45<;A/<' ./?' 7' 1AA/6 ' ./' : 499')' 15<' ' 1?' 78' 7645475' ' 19912<' : h9' 57 ' =7' 872' 5=915<' 4 ' ./0' C57 :' ./' C45=&'' .7;=. '' 75' .1 ' ?1 /2' ' ?;'' 7 : 5' 7' 07;' ' '.199' ?1C/' @; ' 1' ' 215=/' 84=;2/' 1 ' A7;2 # 499' ' .1>/' '7?/' 72</2'' 78' .1 ' 51 ;2/' ' 7'' 78' ./' 6;@.A' ?454' /2'' .1>/' A7?694?/5 /<' ./' C.4=' 75' .4'' 7AA1'475# 1'' 827?

%

. / ? ' /9>/ ') 15<' '7 ? /' . /' 5/ : ' " 45=' 78' 6145 ' 5' A1' /'
' .1>/' 57''<42/A 475'' @/872/' ; / '<10' 5/O # ' A1557 ' /99'
48' ' '. 199' =7' 7' ! /2'1499/ ') 15<' 48' ' <7' 57 # 4 ' ? 10E=4>/'
. / ?' ' ; '64A475'# . 7 ; = .' . /2/' 4'' 57' 2/1'75a'872' 4 ' '
? / ' ' 19912<# : . 7' '10'' 94 9/# @ ; ' 4'' A/2 14590' ? ; A .'
A75A/25/<' 1 ' . /' ' ;<</5' A . 15=/' 78' 188142' I' /' 1<<'' (
H' ' <7' 57 ' <7 ; @ ' ? 0' 9/ /2'' : 499' 19 : 10'' 57 : ' @/' 76/5/< I'
5' /A/ ? @/2' -' . /' 1AC57 : 9/<=/ '' . 1>45=' 2/A/4>/<' 45F
' 2 ; A 475'# <1 /<' 7>/ ? @/2' ' (H' 7' . 1 ' ' : 1'' 57 ' 1 '
! /2'1499/ '' 0/ ' /2<10)' ' . 1<' 1 '>/20' =77<' A1 ; ' /# @0' 2/1'75'
199' . 1 ' =7' . /2/# . /42' A71A . / '' 12/' 57 : ' 45' ? 7 ; 2545=#
15<' ?45/' : 1'' 57 ' J ; 4 /' <75/ ' 7 : 4 . ' 15<45=# . /0'
192/1<0' '10' 1 ' A7 ; 2 # . 1 ' 499' ' . 1>/' 72</2'' 7' A7 ? 694F
? /5 ' . /' ; C/' 78E 5D7 ; # ' <7' : /99' 57 ' 7' 166/12'
. /2/ ' ' ' . /' 7590' 2/89/A 475' ' ' . 199' ? 1C/' 4'# . 1 '
. /0' 1C/' . /42' 2/1'75'' 7' @/' 78' ' ; A . ' 872A/# . 1 ' . /0'
: 75</2' : . 1 ' . /0' . 1>/' <75/' 4'' 57 ' 16627>/<' 78' . /'
; C/' 78' 5D7 ; ' 4'' 7' ' / ' 7 ; ' 75' 1 ; 2<10' 5/O ' ' A1557 '
/99' @ ; ' 4 ' ? 10' @/' ' 4 ' < / 8 / 22 / <) 48' '7# ' ' . 199' @/' ; 5</2'
. /' '1 ? /' <4884A ; 9 4/ ' ' '' '775' 1'' . /' A7 ? / '' 7' 1<24<#
. /' : 499' ' /5<' . /' '' 45=' 78' 215A/' . /' 79</5' 9 / / A/#
: . 4A . ' . /' : 499' : /12' 1'' . /' <7/ '' . /' 72</2' 78' . /' '624 I'
575' A7 ? / '' '7 ? / . 45=' 94C/' 1' ? /51A/ (H' . /0' @/=45' 7'
19C' . /2/' . 1 # 872' 79915<# 48' . /0' 12/' <4' '1 4'84/<# . /'
'' 45=' 78' 6145' 7 ; = . ' 7' @245=' . / ?' 7' . /42' 7@/<4/5A/#
1'' 872 ? /290' @/975=45=' 7' . 1 ' ? 7512A . 0)' 15<' 48' : /' <4' F
6 ; /# . /' 94 9/' =/5 9/ ? 15' 1 ' ' /2 ? 145'' 4'' 7' @/' ? 1</'
; ' /' 78' ' : 4' . ' . 1 ' ? 10' 57 ' @/' 94/' A75' / J ; /5A/' 1 ' 91' #
+B5>EB' @,' ?B5>)1' *4' 5+B, -@,?, G
: 12/' . 7 : ' A24 4A19' : /2/' . /' 4 ? / '# 72<' 15A . / ' /2'
E;0 @-;+,? 7' ,4-,+*-7 ,-050(* H' ' <7' +*D,' A12/' +5
A1220' ? 0' /98' 1'' 62 ; </5 90' 1'' 67' '4@9/' 1 ' . 4'' D ; 5A ; 2/#
?;04,' * ' 6/2'75'& /0/'' 12/' ; 675' ? /# : . 4A . ' ' A75A/4>/'
4'' 24=. # : . 1 />/2' ? 10' @/' . /' C45=&'' 2/'79 ; 475'#1 ' 91')
@ ; ' 4 ' 4'' 4 ? 67' '4@9/' 7' 62/>/5 ' 4<9/' <4'A7 ; 2' /'' . /2/ '
' ' ; 667' /' 07 ; ' : 499' . /12' . 1 ' ' . 1<' 1 'C/<' 15' 1 ; <4/5A/'
78' . /' C45=# 15<' : 1'' 2/8 ; ' /<' @0' 2/1'75' ' . 1<' 57 ' A7 ? B

694?/5 /< ./ 5/:' C45=' 78' 6145' ./2/' :1'' 57' =27;5< 872'4 ' 7;' C57:' >/20' :/99' .1<' 57' 7AA1'475' 78' <745='4 # .1>45='2/A/4>/<' 57' 72</2'' 78' .1 ' 51 ;2/)' 0/' '1?' 8 7645475' 941 '?4=.' 67''4@90'.1>/'.166/5/<# 48' '.1<# 15<' .1 ' ./2/' :499' @/' '775' '7?/'';A.' </F A9121 475'1'' .1 ' .7'/' ?454' /2'' :.7'/' ?1' /2'' <7' 57 ' 7:5' ./' ;C/' 78' 5D7;# :4 ' 57 ' @/' 2/A/4>/<' ./2/' ./42' :10'.1'' 19:10'' @//5' 7' A1220' .45='# .4=.')' 57 ' .1 ' ' 1C/' ./0' 12/' 45' 1' A75<4 475' 78' <745='4 # >/2/' 7 ./2' 6245A/'' ;54 /< I

5' 1'9/ /2' 7' ./' '1?/' 7884A419# 78' ./' Q .# 1<>/2 45=' 7' .4'' 67'4 475' 78' .45='' 72<' 15A./' /2' HA14?7' / ' :.1 ' 1'';215A/' ;276/' >499.1>/' 78' 4 '' '/A;24 0# ;59/'' '' >.1 ' ./0' '10'./2/' :499' @/' ';884A4/5 * .1 ' ./' 2/5A.' C45=' >4 ' /5<' .4'' <10'#45' 6/1A/# 15<' .4'' 1?@4 475' 4'' 57 I' '1 4'84/< I' 8' .4'' '1 4'81A 475' 72<' 15A./' /2' 1C/'' 9/1>/E 7' <7;@ ' ./' ?6/272' 78' /2?150# @0' </910F 45=' 7''4=5' ./' 12 4 475' 2/1 0# .1<' 18872</<' 15' 76672F ;54 0' 7' 215A/' 7' 1A' :4 .# <;6.A4 0' 7' 5=915<' H' ' ?10' @/#I' ./' '10'# H' 78' >/20' 81 19' A75'/J;/5A/' 7' 5=915<# />/5' 19?7'' >4 .7;' 1' 2/?/<0' /' 12/' 57 ' ;54 /</57;=.' 1 '.7?/# 7' /O6/A' 150' =2/1' =77<(15<' .7'/' .1 ' <4'16627>/<' ./' 91 /# 2/1 0' 6;))' .1>/' 2/1'75# ' 8/12# '775' 7' :4'.' 4' .1<' 1C/5' 691A/' 0' @/45=' 45' 215A/' .1'' 57 ' =4>/5' ?/' 1' =2/1 /2' 7645475' 78' ./42' '/A;24 0' 72' =77<'45A9451 475''' >12<'' ;'')' 15<' 'A1557 ' '//# 9/' .4'' ?1 /2' ;25' :.4A.' 6*7 4' :499# ./2/' 4'' 150' =2/1' 7AA1'475' 57:' 872' ./' C45=' 7' @/' 1 ' ./' /OF C,0?,' 78' 15' *9=*??*15-' ./2/')5/4 ./2' <7' '@/./>/' </' 19912<' >499 @/' 975=' :4 .' 07;I' ./5A/' ./' :24 /2' =915A/'' 7:12<'' ' /2?145'# 15<' '10'(* H' '1?' 79<' 15='$1?/'' '.7;9<' '10# ;675' 1'2/672' .1 ' ' .1<' 1'C/<' 15' 1;<4/5A/' 15<' >1' 2/8;'/<# .1 ' ' '.7;9<' .1>/# 45' 1' >/20' '.72' 4?/# 1' ?;A.' =2/1 /2' ?72 484A1 475' ' 1?' 78' 7645475# ./' .45C'' ' '.199' @/' 79<' 57' 7' A7?/' 7' A7;2 ' ' <7' 57' <7;@' @;' 1'' ./0' '/2>/' ?/# ./' '1?/'' .199' @/' 7' ' 19912< I '' 7' ./' ?/''1=/'' .4'' 4&/5A.

$,Q

1?@1''1<72?10 1C/ 7 5=915<# 72< 15A./' /2:24 /'
7 72< $/2'/0# 75 ./ - . /A/?@/2(*H 845< @O
'7?/# ./O62/ /5< ./O :499 =4>/ 199 ./ 1'';215A/' .1
A15@/ 2/J;42/<#@; 1C/ 4 .1 :/ '.7;9<# 48 67'F
'4@9/# .1>/ '7?/ .45= ?72/ ';@' 15 419 I .4' :1' '14<
:4 . =77< 2/1'75# 872 </ 72AO .1< 2/A/5 90 </F
A912/< .1 # H45 2/91 475 7 . / ;C/ 78 5D7;# ./ C45=
:1' 2/'79>/< 7 ';6672 .4?:4 . 199 .4' 872A/'# .4A.
./ <4< 57 <7;@ @; /1'490 7 <7 I 5< 4 ?10@/
1<</<# :4 . 1 .4' 81'.475' 77) 872# :24 /' 72<
15A./' /2 7 !/2575# ./ 5< 78 /A/?@/2(*H ./
;C/ <& '';51 bA 51>/ @//5./2/ /4'1'07;J= ?15#
15< .4' .142 :1' 18 /2 ./ 6154'. ?155/2) @; . /O
'775 ?1</.4?1'@/1; /872/ ./ :14 /< 75 ./ C45=#
.4' .142 :1' A; # A;29/<# 15< 67 :</2/< 4' A/2 145
45 6145 57 :# ?/5 78 J;194 O 19C 78 57 .45= @; @/45=
45 ./ 2/5A. .1@4 I 8 .4' 1994A4'45= 627A/''
:/ .1>/ 8;2 ./2 45<4A1 475' 45 1 9/ /2 78 ./ .
/A/?@/2(*H 21 ./2 1662/./5< ./?454' /2'45 6145
:499@/A7?/ 2/5A. .15 ./42 C45= 6154'.) @O 2/1'75
:/ .1>/ .4 ./2 7 '//5 ./O .1>/ ';<4/< ?72/ 894/42
7:5 624>1 /45 /2/' .15 /4 ./2 94/42 6245A/ 72 A7;5F
20&') 15< 7;4' <&78' :4 57 @/ :15 45= 75 ';A. 15
7AA1'475 ./2/ 4' =2/1 ';?' 2/ ;25/< 192/1<0# 4
4' '14<# 872 ./ C45=&' ;'/# @; 7 ./2' :499 845< ./42
1<>15 1=/ I

27?' ./'/ .4=. ?1 /2' 78 '1 / :/ ?;' 57 :
2/ ;25 7 ./ 188142' 2/=12<45= .7?/ 15< 4 ' /5/?4/'#
:4 . :.4A. 72< 15A./' /2 :1' ?72/ /'6/A4199O A75F
A/25/<

"<

GA75'/J;/5 ;5676;9124 0 78 ./ 5=94'. =7>/25?/5
:./5 4 2/8;'/< 7 14< ./81 45= 1<>/5 ;2/2'' 72 7 A7?/
7 ./ 2/'A;/ 78 ./ '.12/.79</2' H 1?' 1'';2/< ./
7590.76/'' ./0.1>/1 /2?145'' 4'' .4'' 62/'/5 A75F
D;5A ;2/ 78 188142'' 45 A7 915<# @0 ./ <4'166745 ?/5 78
124/5 4'' A/2 145 ./0 .1>/ .1< ;5</2 </@1 /
:./ ./2 ./0 '.7;9< 57 ''/5<'7?/ 6/2'75 78 57 /:4 .
62767'19'' 7 ./ ?7' A75'4</21@9/ ?/5 ./2/# @; ./0
12/ 57 A7?/ 7 .1 72 150 7 ./2 2/'79;475 I 72
:.1 />/2 6;267'/# :/ 845< 8;5<'' @/45= 215'?4 /<
827? ./ /O49/< 5=94'.A7;2 # 15< ;C/ 1?49 75 4''
1=145 51?/< 1'' 75/ 78 ./2/A464/5 '(* H 499'' 872 :7
.;5<2/< .7;'15< >2/'' 12/ 2/?4 /< 7 A7 915<#I
:24 /'' 72< 15A./' /2# 45 10 , # H 15< 1?' 79<
75/.198 4'' 7 @/ 614< ;C/ 1?49 75# ./ 7 ./2 7 ./
129 78 ;?/ I
 .4'' 6/247<# 15<'45A/ ./ @/=45545= 78 ./ 0/12#
./ 5=.'.A7;2 1 /2?145'' :1'' '/5'4@90 188/A /<
@0 ./ 814.5= ./19 .' 15<'6424 '' 78 ./ /O49/< C45=
H ./2/ 4'' 57 .45= 1 62/'/5 1A 45= 1 /2?145'#
"45= $1?/'' @/45= 57 :/99# 15< :.7990 =4>45= .4?''/98 å
7 </>7 475 15< 6210/2' ./ :7;5<# :.4A. :1'' >/20
912=/# 4'' ./19/<# @; 4 4'' .7;=. ./0 .1>/ <75/ 4 77
'775# @0 2/1'75# ./ '1?/ ;?7;2'' 2;5 199 7>/2 .4'' @7<0#
'7?/4?/'' 45 .4'' ' 7?1A.# 9/='# bA V /4'' /O 2/?/90
@27C/# 15< ?7' 12/ 78 7645475 ./ A1557 2/A7>/2 4)
.7;=.'./ ?10 A75 45;/ '7?/ 4?/ I 97 '' '//?' 7
.1>/ @//5 </8/22/< 15< 45 /994=/5A/2'' ;5/?6970/< 872
1 ''/1'75# 1'' 975= 1'' ./ /OBC45= 910 45 .4'' </62/''/<
15< ;5A/2 145 ' 1 / H A1557 .45C ./2/ 12/ 150
?/.7<'' 1C/5 1 62/'/5 1 /2?145'# ./ 91 /C45=
@/45= '7 499 .1 ./A1557 91' 975=# 15< ?7' 845< 12/
78 .1 7645475 I
 A 4759/''# @44 57 19 7=/ ./2 .76/9/''# ./ 94 9/ 5=F
94'.A7;2 4'' ';@'/J;/5 90 '67C/5 78 1'' 2/' 45= :.1
'?199 .76/ ./0 /5 /2 145/<# ;675 ./1=4 1 475 78 A7 F
915<# H 15< 48 .1 8149# 1 .45='' :499 @/ J;4/ 499 ./

5/O ' ?// 45=' 78' 612941?/5 ' ' '.7;9<' .45C#I' 1<<'' ./)' ' CH
:24 /2# H' .1 '45' /1<' 78'1' A.15=/' 45' ./' ?454' 2O# 48E: /' #
.1<' 1'5/:' 612.1?/5 '4 ' :7;9<' @/' ?72/' 872' ./' C45=&'
'/2>4A/)57 ' ?;A.' =77<' A15' @/' /O6/A /<' D 27?' 1' 91' '
'/''475 I

./' 612941?/5 #'4 ' :499' @/' 2/?/?@/2/<# .1<' @//5'
62727=;/<' 75' ./' .' 78' ./' 62/>47;'' 6249# 75' ./'
7??75'' @/45=' 75' ./' 6745 ' 78' 2/A7??/5<45=' 7' ./'
C45=' ./' /O6/<4/5AO' 78' /OA9;<45=' 199' 872/4=5/2'' 827?' .4''
A7;5'/9'' 6//<49O' 18 /2' .4'# ./' =2/1 ' '/19' 1C/22827?'
./' 1@9/' .15<'' 78' 7?/4&'' :1'' A7584</<' 7' ./' :/1C'
C//645=' 78' 1 .15' 24=.)' 15<' ./' 2/ 42/?/5 ' 78'
.2/:'@;20' 76/5/<' ./' :10' 7' ./' 1AA/''475' 78' ./'
724/' ' 5' ./' 91' ' '/''475' 78' 612941?/5 ' 7' :.4A.' 72<'
15A./' /2' 2/8/2'' 1@7>/# ./O' =145/<' 15' 1'A/5</5AO#
15<' /2/' '7' 94 9/' 45A945/<' 7' 8;2 ./2' ./' >4/:'' 78' ./'
C45=' .1 ' ./' ';<</590' <4''79>/<' ./' 612941?/5 # 75'
/A/?@/2'

./' H' 94 9/' .76/' I' 78' ./' /O49/<' A7;2 ' 15<' 4 '' 87997:/2''
:1'' </A2/1'/<' 1@7;' 944'' 6/247<' @O' 1' 627D/A ' </'4=5/<'
@O' 4 41?)* .1 ' 78' ./' 9/=4'91 4>/' ;5475' 78' 5=915<'
15<' A7 915<' H' ' 845<' ./' ;5475' :4 .' A7 915<' 4'' 57 '
94C/<' 1 ' ' /2?145'# 15<' 199' /5</1>7;2'& 499' @/' ;'/<'
7' 62/>/5 '4 # 45' 72</2' 7' :.4A.# 75/' 27 /2# 1@7;' Q'
O/12'' 78'1=/# 78'1' ?4<<9/' '4K/# :4 .' 1'2/<' 81A/' L./'4'' ./'
'75' 78'.4?' .1 ' :1''.15=/<' 872' 8;254'.45=' ./'4'915<' 78'
1''' :4 .' 627>4'475'M# :/5 ' O/' /2<10' 872' 5=915<# 15<'
4'' 7' =7' 827?' ./5A/' 7' A7 915<' 675' ./' 627A91?1F
475' A75A/2545=''/?45124/'#I' 1<<'' ./' 1?@1''1<72# H' ./'
91 /' C45=' .7;=.' 4 ' 1<>4'1@9/' .1 ' '/>/219' :.7' 12/'./2/#
'.7;9<'9/1>/' ./?' !4'A7;5 ' ;5@12 75# 72<' 19=21>/#
2' 9412 75# 4 ./245= 75# 27:5/# bA' 94/O' 12/'
=75/' 7' 1'624>1 /'.7;'/# 499' ./O''//':.1 ' ./' 612941?/5 '
:499' <7 I

/15:.49/# ./2/':/2/'?150' 82/J;/5 /2'' 78' ./' 5=F
94'.'A7;2 ':.7# :4 .7;'8//945=' 150' 199/=415A/' 7' .1 ' 78'
' /55145'# :/2/''/5'4@9/# 5/>/2 ./9/''# 78' 15' /O 2/?/

A;247'4 0 7 2/6142 7 215A/# 45 72</2 7 977C ;675 94/ /O49/< ?7512A. 15< .4'' 81?490 5 72</2 7 18872< ./'/ >4'4 72'' 15 76672 ;54 0 872 =21 48045= :4 .7; A7?627F ?4'45= ./?'/9>/'# 1 21A 475'' :/2/ </>4'/< 7 <21 : ./?# 57 7 /2?145'#@; 7 !/2'1499/'' 5 ;=;'# !/2575 4'' 45872?/< .1 H ./0 12/ /O 2/?/ .4=. 1 /2?145'# 15< A75A9;</ 78@/45= '775 2/A199/< ./ 245A/ 78 19/'# 75 .;2'<10 91'# :1'' _ '//./ :1 /2 :72C'' 1 1290 7 4A/ :1''=4>/5 7 ./ 5=94'. .1 ./2/ ./0 ?4=. '//.4?# 15< '/>/219 :/5 I 8 ./ 455/2 948/ 78 ./ /O49/< 5=94'. A7;2 1 /2?145'# 72< 15A./' /2 A7;9< 7590 '6/1C 1AA72<45= 7 45872?1 475 914< @/872/ .4?@0 H 45 /9.=/5A/2'I 15< 7 ./2'' H ./0 .1>+ 1 /2?145'#I ./ :24 /'' 75 ;=;'' -# H>/20 78 /5 =2/1 61AC/ '# 15< ./2/ .1'' @//5 1 A7;5A49 :./2/ 72< L4<<9/ 75M 15< 72< /9B 872 ?/# .7;=. 4 4'' .7;=. ./2/ 12/ ./ '1?/ 154F ?7'4 4/'' 1'' />/2 @/ :/5 ./? 7?/ .45C 72< 4<<9/ 75 :499 @/ </A912/< 7>/2572 7 ./ 6245A/# @0 2/1'75 199 ./42 824/5<'' 827?' 5=915< 1'';2/ ./?' .1 ./0 '.199 57 @/' 1@9/ 7 <7 ./?' 150 '/2>4A/# ;59/''a ./0 '.7:' '7?/ '72 78 A7;5 /515A/ 7 ./ 27 /' 15 '# 15< .1 691A45= 72< 4<<9/ 75 1@7;. 4?' ?10 =4>/ ./?' 1 =77< =27;5< 7 :72C ;675 4'' 57 :'2/'79>/< .1 ./ 91 /C45=# bA # :499 57 =7 45 7 ?7;2545=# .7;=. '7?/ 78 ./ 81?490 ?10 I .4'' 2/8/2'' 7 ./ ?7;2545= 872 ./ 07;5= ;C/ 78 97;A/' /2# 1 ./ 6/247< 78 :.7'/ </1 .'';A.' 78 ./ A75'6421 72'' 1=145'' ./ .8/ 78 "45= 49.1?' :.7 .1< /'A16/< 7 215A/# :/2/ @/45= H 76/590 A7;5 /515A/<I 45' /1< 78# 1'' ./2/ 7872/# H /5F A7;21=/< ;5</2 .15< I 72< /9872 # ?/15 :.49/# .1< 1C/5 1 .7;'/1 /2?145'# H15< 4'' 7 .>/ ./2/ .4'' :45 /2 I .4'' A7;2 # 1 972< ?1072 /O6/A 15 :1'' 62/'/5 /<# 15< 1 >/20 @79< ?15 ./ ?;' .1>/ @//5# .7;=.# 627@1@90# ./ 94 9/ .7;=. .1 ./ 5=94'. 1?@1''1<72 :1'' 1 :12/ 78 :.1 61''/< 1 .4'' 94 9/ @; 57 ;54?672 15 A7;2 45A4</5 H 42 $79?' 12'75'# 78

/4=1 /# 15< .4'' '75# .1>/ @7 . @//5 7 ?1C/ ./42 %
A7;2 7 ./ 91 /C45= 15< J;//5 /'10'' ./ .76/'' 7
2/A/4>/ ./?: ./5 ./ 4'' 1072 78 75<75#: .4A. ./
62/ /5<'' 4'' .4'' 24=. 5/O 0/12 I
;1 ./62/'/5?7?/5 ./A7;2 1 /2?145''
:1'' 9/''' </'427;'' 7 1AJ;42/ ./627 /A 475 78 1 8; ;2/
972<?1072 .15 ./=77<=21A/''15<=/5/27;''4589;/5A/''
78 ./ "45= 78 215A/ H 845< ./ 6/5'475 78 ./
c 245A/ 78 19/'#I :24 /'' 72< 15A./' /2# 75 /6 /?F
@/2 Q# H?;A.9/''' .15 :1'' 842' 2/672 /<#15<UN@/94/>/
./4'' 57 7 @/1 75 145/@9/1; 4'' A/2 145 1 /2?145'' ./0 :7;9<.1>/ ./ 2/5A. A74;2 1C/ ?72/
57 4A/ 78 .4?) @; 1?78 7645475 ./0 :499 =7 75 1''
./0 .1>/ 872?/290 <75/# 15< 57E ./2:4'/ I
./2/ /2/ :10'# .7:/>/2# @0 :.4A. ./ ;12
45 /2/' '':/2/ 7 @/627?7 /<1 .7?/#15<75/78 ./'/
4''. /2/199;</< 7 H "45= $1?/'' .1'' 72</2/< ./6245 F
45= 78 ./616/2'' 78 "45= .129/'' # .1 :/2/87;5<
45 .4'' A1@45/ #:4 . ./1AA7;5 78 .4'' </A91245= .4?''/98
1 7?15 1 .794A#1 .4''</1 .#1'' 19'7 ./91 / ;A./''
78 72C) 15< .1'' '/ .4'' 51?/ 7aD;' 480 .1 ./0 12/
2;/A764/' /=1>/ ./?1 75 145/@9/1;' 7 '/>/219
6;@94A ?454' /2' .1>/ 4 # @; 4 4'' 57 ?45/) @;
./0 :499 '775 @/A7??75 :499 '/5< 4 07;1'' '775
1'' A15 4'' ./'1?/#45 2/5A.# .1 :1''6245 /< 45
5=915<# 18 /2 "45= .129/'&'' </1 . .4'' :h9 <7 .4?
=2/1 ''/2>4A/ ./2/# '';667'/ I
4 . ./</A9121 475 78 ./814 . 45 :.4A. ./91' B
51?/< C45= <4/<# ./2/:1'' ?1</1''/2 475 78 ./A2//<
45 :.4A. ./C45= .1 :1'' .76/< 7 @/#:1'' 94>45= '
H A1557 /99#I '10'' ./1?@1''1<72# 45 /A/?@/2#
H :./5A/ A7?/'' ./42 1662/./5'475 1 /2?145'#
.1 ./62/ /5</< 245A/ 78 19/'' :499 @/A1224/<1:10
872 5=915<#;675 .4'' 7:5 A75'/5) ;675 :.4A.# ./0
.1>/ 45A2/1'/< .4'' =;12<'') :./2/872?/290 ./ .1<''4O#
57:87;2//5 ./019'7 .45C ./42 =1?/ '7>/20'';2/#
.1 ./2/ 4'' 57 7AA1'475 ./ '.7;9<?1C/ ';A. 1 ' /6

/'4</'# ./' A.15=45=' .4'' 2/.=475' 4'' : .1 ' :499' 5/>/2' @/'
';88/2/<) :.4A.' ./0' .1>/'</A912/<91 /90' .15' .1 '
'.7;9<'@/# ./0' .1<21 94/2' '//' .4?'</1< I
5'/>/20''4</' ./'94 9/'A7;2 # 75/'<10'/91 /<' ./'7 ./2'
</62/''/<# 977C/<'1@7;'872' '21:'' 7'A945=' 7# :./2/@0'
7'6/2';1</' ./?'/9>/'' ./0' :/2/' ':4??45=':4 .' ./'
'2/1?# 15<':/2/'5/4 ./2' ?7 4759/''# 94C/'81'B?772/<
.;9C'' :.4A.'7590''/2R?' 7'?12C' ./'':48'A7;2'/'78' ./'
61''45=' '2/1?# 572' :/2/'1A ;1990#45'627A/''' 78' <27:5>'
45='H' ./'6154'.'1?@1''1<72' :1'' 91''75<10'1'
'/2?145'#I':24/'' ?0' 2<# /1290'45'$15;120' , '
H' '1?' 79<'./'?1</'1'A7?694?/5'827?'./'/=/5'#a'
45'=/5/219'/2?'# :4 .7;'150'9/ /2'827?'./?) '1045=#
1'' ./' .1<'?1</'57a+/5 20# 572' :1'' 94C/'7'<7'4 # ./'
977C/<';675'.4?'/98'1''1'624>1/'6/2'75' 45''?1C/''
./?'.?C' .1'./' .1'4'' A7?45=':499' .1>/'1;<4/5A/'
78' ./?'45'A/2/?750# @;'' A1557' .45C'4 I
27?' 215A/# 15<' 6145# 15<'./'$1A7@4/''1'.7?/#
./' 5=.'.'A7;2'1' /2?145'';25/<# ?7''875<90#
7'.1'1' 7?/# 45'72</2'7'7@ 145'./5A/# 67:/2# ?
& 15<'6/A;54120'14<' H' ./' ;C/'78' /2:4AC'4''
=75/'872' 7?/#I' 72<' 15A./'/2':24/''75'$15;120' #
H'15<' 1?49 75' .1'A7??15</<'45' 2/915<#:4.'.4?'
4''45'2;A475''12/ * 7'/5=1=/' ./'676/'45'./44a'45 /F
2/'# 15<'7'7@ 145''7?/'??75/0# 15<'19'7'1'A12<4519&''
A16'872' ./'91/'C45='7'<4'67'/'78# :.4A.' ./0' .45C# 48'
./'4'' 75A/''7' 7:5/<#4':499' =4>/'.4?'=2/1'A2/<4'45'
;276/' ' ' /55145'' ./2/'4'' 57 .45='<7;4=# 1'
62/'/5' ./012/'4?61 4/5'7''//':.1''72'78'612941F
?/5':/'12/'94C/'7'.1>/ I
./'4?61 4/5A/'78' ./' 5=.'.'A7;2'1' ' /2?145''
:1''5/4 ./2'975=B 24/<'572'24A.90'2/:12</<' 5'1'9/ /2'
78' /@2;120' # :/'12/'79<' .1# H ' ' /2?145''
./0'<7'57'.C/' ./'612.1?/5) @;' ./0'62/ /5<' 7'
.1>/'';A.'1'';215A/'' .1' ./0'<7'57'>19;/'4) 15<

78 $1?/'&" '75# 45 ./ />/5 78 .4" '42/&" </1 . 4"
1 .794A 72 .7<700<4< 57 57 :166/12 7@/ '7 .4=.90
>1;5 /< 5 12A. # 18 /2 ' 1 45= .1 ./ 5=.'.
/OBC45= :7;9< 2/'72 7 ./ @1 ." 78 7;2@75# 48 .4'a
' 2/5= .:7;9< A1220 .4?' '7 812# ./ :24 /2 1<<'(*
H ./ 45' 2;A 475 ./42 824/5<" 45 5=915< .1>/ 57 :4"
7 45'45;1 /1" 48 ./62/ /5</< 245A/ 78 19/" :7;9<
;25 27 /' 15 # 45 72</2 7 C//6 788 ./@97 :1" 975= 1"
./0 A15 I 5 12A. :/.1>/ ./87997 :45=4 /?(*
H ./91 /C41==7/" 75 /<5/'<10 7 7;2@75# 1" 19'7
?7' 78 .1 A7;2 4" .7;=. ./A1557 91' 975=)
./ .1" 57 0/ ./ ;'/ 78 .4" 24=. .15< I H /4" 812
827?' @/45= :/99#I '7 2;5" 1 @;99/ 45 </'61 A. 78 ./
Q .# H 15< 4" >/20 ?;A. @27C/ 78 91 /# '7 .1 575/
.45C" ./ A15 91' 975= 4" ' 10 1 7;2@75 :4 @/
.2//: //C' /4" 7 @/ /9/>/5 <10" 45 =745=# 15<
./'1?/45 .4" 2/ ;25 ./0 45 /5< 7 6;?6 .4" 24=.
12?#:.4A. ./ .1" 97' ./;'/ 78# 15< 4" 7 @1 ./15<
<245C ./:1 /2' ./0 </'42/<@; # 78
./ 2/5A. A7;2 872 .4" D7;25/0# :.4A.:1" 4??/F
<41 /90 '/5 ./?45 =79< <47 57 C57 :@; ./0
?10 1<>4'/ .4?' 18 /2 .1 7 1 .7 /2 A94?1 /#:.4A94
?10 @/ A75>/54/5 /57;=.# 75 '/>/219 1AA7;5 ' 5
'.72 # .4" '/5'/" 15< ?/?720 12/?;A. 4?6142/<# 15< 1
8/:?75 .'# @/94/>/# :499 A1220 944?' 788 I
9/5= .# /1290 45 6249# ./18894A /<C45=A7??/5A/"
.4" 82;4 9/'" D7;25/0 /61''/< .27;=. ./A164 19#
15< H910 91' 54=. L 6249 M 1 ./ ;C/ 78 1;K;5&"
.7;'/#I 15< ./2/ :1 A./< 15A./' /2&" 45 /9"=/5A/2
19'7# 872 .4" 72<'.46 1<<'# .1 # 1 ./ <;C/&" .7;'/#
H75/ 2 1;5</2'75#;5A9/ 7 1<0 .; 9/:72 .#C4''/<
.4" .15< /4" 91 /90 A7?/827?' 5=915<# 15< .>/'&
=/5/21990 45 ./572 . 4" 62/ /5A/ 78 A7?45=.4 ./2
4" 7 :14 75 .1 91<0# .7?/#:.7 .1" @//5 '7?/4?/
45 215A/# 15< 4" 78 ./'1?/7645475 I 7 >4'4 72" 78
';A. 97019 J;194 0 1" ./1@7>/ ./2/ :1" 57 91AC 78
A7;2/'0 1 ./.15<" 78 ./ /049/')@; 872 >4'4 72'

15' .7;2' ./' 2/5A.' C45=' 15<' ./' :.79/' A7;2' .1>/' @//5' 7' 1C/' ./42' 9/1>/' 78' .4?#@;' ./' :+' 57' </1<' 91''54=.')15<'575/'/O6/A ".'/'A15'2/A7>/2' C57:''7' ?;A.' .1' 'A15'1'';2/'07;# ./' ?7?/5'./' <4/'# ./' 6245A/':499' 1C/' ./' 4 9/' 78' "45=' 78' 5=915<# 15<' :4' @/' 7:5/<' 1'';A.#@0' .7'/'1' ' /2?145''' ./ ./2' ./'A7;2'78' 215A/':499'7:5'.4?''7''775# '1?'45'<7;@# 15<'12<'21 ./2' 78' 7645475' ./0':499'1>74<'4'872' '7?/' 4?/' '45 /5<# 1'' '775'1'' '//'.7:' ./'A7;2'1A '' 75# .4'' 7AA1'475# 7' '/5<' 15' /O62/'' 7' .4'' 1D/'0# 872' 45'2;A 475'15<'72</2'#I

5' ./' '/A75<'9/ /2' 51?/<' 1@7>/# ./' 1?@1''1<72' :24/'' (* H' "45=' $1?/'' 4'' 'h9' 1.>/#@;' :4.7;' 150' .76/'' 78'2/A7>/40' /' '//?'' ?;@.' 2/'4=5/<# 15<'.1'' /O.72/<' 72<'$ 4<<9/75' 15<' 248845' 15<' ./' 2/'' 78' .4'' 27 /' 15'' /2015 '' 7' /?@21A/' ./' 7?4'.'2/94=475# ' ./12' ./' 91 /2' 4'' /O 2/?/90' ;5/1'0# @0' 2/1'75' ./' "45=' 78' 215A/' :1'' 62/'/5 #:.7' 77C' 57 4A/' 7' .4?# .1'./'.76/<'./' :74<<'2/89/A'15<'A75'4</2':.1'"45=' $1?/'' .1<'14<' 7' .4?' .4'' :h9' .1>/' 1'=2/1 /2' /89/A # '45A/' 'A1557' /99# 48' ./'' .7;9<' 57'A.15=/#:./ ./2' ./' 2/5A.EA7z2 ##:499' .1>/' 150' 2/=12<' 872' .4?# 1'' ./0' .1>/' .1<' .4 ./2 7' ./0' 19C' ?;A.' 78' :.1' "45=' $1?/'' 14<' y' ./' 62/ /5</<' 6245A/# 7' C//6'' /<81'' 7' .4'' 2/94=475#(15<' 57' 7' </612' 827?' 4 # 75' 150' 1AA7;5' :.1 '7/>/2 I' 8 `2' 1 ;<.4=' 7' ./'2/A7=54 475'78' ./'' '75' G78$1?/'# 45' ./' '1?/' /2?'' 1'' 45' .4'' 9/ /2' 7' !/2575# 72<' 15A./' /2' 1<<'' .1 />/2' A<?694?{5 '' 61'' '' :499B' @Y' 624>1/' (E ./' C45=' L 7;4'' % ! M' 4'' 57:'1' 1290# 15<' 1' .4'' 2/ ;25' =7/'&872' 75 145/@9/1;' 7' 4' ?10' G1'490'a@/' A75 24>/<' 57' 7' '//' ./' 62/ /5</<' 6245@/' h9' .4'' 2/ ;25'E ./' J;//5' :499' @/'1' .14997'45' ./' A75>/5' 499' "45=' $1?/''4''@;24/<# 15<' ./'62/ /5</<' 6245A/'1' ./B ;C/'78' 1;K;5&'' 1' 124'# 15<' ./5' ./0' !499'2/ ;25' 7' ' /2?145''' '<7;@'57'@;' ./' 2/5A.' :499'EA199' .4?'V 70'<& 5=9/ /22/#& .7;=.'4' ?10'@/'57' :./2/' '1?E 499'4'@/'6;@94A90' 1997:/<'78'@0' ./'A7;2 I

%

5' .4'#<4=5484/< 2/ '/2>/' 72<' 15A./' /2' A75 45;/<' ;5 49' ./' 2/A/4>/<' ./' 72</2'' ./' 1:8; /< 827?' 5'A915<# H ' <4<' 57 ' =7' 7' !/2'1499/'# 0/' /2<10#I' ./' :24 /'' 7' !/2575# 75' ./' 9' #H' ' 15<'91?'A7584</5'575/'./2/# 48' ./0'<12/'7:5' ./42&7645475#@;' ?;' ''10' ':1'' 45' ./' 24=.# 15<' ' .45C' N' '.7;9<' .1>/' ?1</' 1' :72'/' 84=;2/' .15' 2' 45K/5<728'<4<#:.7':1''62/'/5'..5' ./' ;C/' 78' 5D7;':1''</A912/<''45='78' 6145' ':1'' '1 4'84/<' ./' :.79/' <4'A7;4&'/' 78' ./' A7;2':7;9<' .1>/' @//5' 78' ./42' 7:5'V''70'<& 5=9/ /22/#& 15<'78' ./' 2/5A94' C45=&'' =745=' 7' ' /2?145'' 7'?1C/'.4?' ./'842''>4'4 ':.4A.' 1AA72<45=90'./'<4<' .1'<10' /'' 10/<@;'94 9/':4.' .4?#=4>45=' .4?' ./' 4 9/'78' 1D/'0':4.' ./' J;//5' ./' :1'' 1' A75'4</21@9/' 4?/'' .@' 2/'' 78' ./' A7;2' ?1</' ./42' A7?694?/5 '' ./''1?/'<10' '1?' 79<' V'</' 72AO'<7/'' </A912/# .4'' <7/'' 57'45' 150' :10'' 19 /2' ./' 45 /5 475''78' ./' C45=' 8287?' 7@'/2>45=' /O1A 90' ./' 2/1 0'78' 0':4AC' 15<' ./' 199/=/'' '/>/219' /O1?69/'' 75' ./' 94C/' A1'/'' /' ''//?/<' A75A/25/<' ' :1'' 57' ./2/# 15<' <4<' </'42/' 75/' 7' 9/' ?/' C57:'./' '.7;9<' @/' 1' 124'' 75' 24<10' 15<' .1'./' :7;9<' /4 ./2' :14'75'?/# 72' '.7;9<' @/' =91<' 7' '//' ?/' ' 45 /5<' 7' '//' .4?# 7' ./12' :.1'./' :499' '10# 15<''.199' ./5' 1AJ;145'07;' '.1>/'.1<'872' '7?/' 4?/'1'>/20'<4884A;9'=1?/'.7:' 7' 1A # 15<' 'A1557'''//'@;'4' :499'@/'0/' :72'/' ' '.12' 82/J;/5 90'827?' 2' 91 .:10 # :.7' 1AJ;145 '' ?/' ./' 910'' ?0'9/ /2''2/=;91290'@/872/'.4'' 1D/'0# :.4A.'4'' ./' 2/1'75' '<7' 57' :24 /' 7' ./' C45=' 4??/<41 /90# ?0'/98' @/'4</'' ' 845<' .4'' 1D/'0'.1''9/8':.1'2/91 /'' 7'?/# 7' ./42' OA/99/5A4/'' ./' 72<'' $;'4A/'# :.4A.'4'' 57' 94 9/''1 4'81A 475 I

./'9/ /2' 5/O'45'<1 /' 7' ./' 1@7>/' 1<<2/''/<' 7' !/2575# 4'' 75/' 7' 91 .:10 # 78' ./' 2<' /6 /?@/2' ./':24 /2'4'' '499' ?7''A75A/25/<':4 .' ./'A7;2'78' ' /2?145'# ./'A75<;A'78' .1'78' 215A/# 15<' ./'A7;2'/' ./'.4?''/98'.1<' 7'6;2';/'(* H' '<4<'57'=7' 7' !/2'1499/'# 91'' ;/'<10# I' ./' '10'# H'57' .45C45=' 4'6276/2# :.4A.

149 7 : 5 : 1" 45 . / 24=. . 4" . 1" ? 1</ . / ? A75F '4</2 . 1 # 1 9/1' # . /0 7 ; = . 7 . 1>/ 77C 57 4A/ 78 4 7 ? /# @/872/ . /0 . 1< ? 1</ ' ; A. 1 </A9121 475 </ 72A0 ' / / ? /< A75A/25/<# . 1" ' /5 ? / 1 A7 ? 694 ? /5 # 15< 788/2/< 7 : 14 75 ? / </'42/< 4 ? 4=. @/ 1 . 4" 7 : 5 . 7 ; ' / 1? 7 '/ / . 4 ? . 4" 18 /25775# 15< ' . 199 . /12 : . 1 . / A15 '10 45 1 A1' / 78 . 4" 51 ; 2/ C57 : . / : 199 62/ /5< . /2/ 4" 57 . 45= 45 . 4" A75 2120 7 . / 2/1 0 78 0' : 4AC# 15< . 1 . / /5=1=/ ? /5 " . /0 . 1>/ ? 1</ : ; . . 4" 1D/ ' 0# . /0 : 499 7@' /5B/# 15< 57 1 ' '4' 45 150 ? 155/2 . / 2 ? A/ ; . 4" 4" '1045= . /0 12/ ; 5</2 575/# 45 A1' / : / ' . 7 ; 9< @/ '7 ; 5941660 1" 7 97' / . 4" 1D/ ' 0# '7 . 1 5=915< ? ; ' @/ /5=1=/< 45 1 : 12 1 91 ') 15< 4 4" 67 ' '4@9/ 215A/ ? 10 D/ 45 1 @/ /2 A75<4 475 78 ' ; 6672 45= 4 . /5# . 15 1 62/F '/5 I

8 /2 199 ; <45= 7 . / >4' 4 78 . / " 45= 78 215A/ 7 . / 07 ; 5= " 45= $1 ? / " # 72< 15A. / ' /2 . 4872 ? " 91 . : 10 # . 1 H . / I L . / 62/ /5</< C45=M H . / 5/O <10 2/ ; 25/< . / >4' 4 1 ! /2' 1499/ ' 99 . / A/2/ ? 754/ " 61 ' '/< 7 . / /5 42/ '1 4' 81A 475 78 . 7 ' / 1 /2 ? 145 '# 15< 45 . / '1 ? /E ? 155/2 1" 4 : 1" 7 . / 91 / C45= A1557 / : . 1 2/ '79 ; 475 " . 4" 1D/ ' 0 : 499 1C/ 75 . 4" 7AA1' 475# @ ; . 76/ 1 9/1' . / 6/2 ? 4 ' '475 872 A7 ? 45= . 7 ? /# 872 '7 ? / 4 ? /# : . 4A . /O6/A 827 ? . / 72<" $; ' 4A/ '# B : 499 57 @/ 2/ > 7C/<) @0 : . 4A . ? /15 '# ? 10 . 1>/ . / . 757 ; 2 7 <4' A7 ; 2' / . 4" 1D/ ' 0 75 188142" . /2/# : . 4A . ? 10 @/ 872 . 4" ' /2>4A/# 15< : . 4A . 12/ 57 6276/2# 572 A1557 @/ '7 : / <75/ @0 9/ /2 72 ? 0 612 # A1557 ' '/ / 150 499 A75' /J ; /5A/# />/5 48 : 1" 7 1C/ ? 0 1 ; <4/5A/ 78 9/1>/# @ ; 21 . /2 . / A75 2120 4" 57 : 7 ; 78 ? 0 67 : E/2 7 '/2>/ . 4" 1D/ ' 0 . /2/ : 4 . /4 . /2 . 757 ; 2 72 ' ; AA/ ' ') 15< 4 : 499 57 : A7 ? / 7 . 1 # . 1 ' '. 199 @/ 7@94=/< 7 C//6 ? 0 . 7 ; '/# 72 @7 /067 '/< 7 . / 4 ? 6/2 45/5 <4' A7 ; 2' / " 78 . / 2/5A. # 78 . /42 5/ : C45=# : . 4A . 4" 57 : . / 7590 ' ; @D/A 19C/< 78 1 ? ' /5' 4@9/ . 4" 1D/ ' 0 : 4

)

1C/ ';A. ?/1';2/ 1 45<;A/ ?7' 872 .4 '/2>4A/# 1;<
G:499 .1>/ '7?/ A75'4</21 475 872 ?/ I
5 ./ c87 7t:45= <10# ./ 45 /2>4/ :' 78 72< 15F
A./' /2 :4 . ./ A7;2 /7; 15< 1' ; / </ 72AO
.1>45= 1C/5 691A/# ./ 1?@1''1<72 627A//<'# 45 .4
5/O 9/ /2# |' =4>/ ./ 87997:45= 1AA7;5 78 4 7
!/2575 ./ <1 / 4 /6 /?@/2 '(*

H .1>/ '//5 </ 72AO# :.7 <4< /5</1>7;2 7
6; . /@/' A797;2 . /A7;9< 75 ./ 91 / 627A//<45=
./A.4/8 78 .4 12=;?/5 :1 7 '.7:' ?/ ./2/ :1
57 .45=45 .4 A75 2120 7 ./ 2/1 0 78 0' :4AC)15<
A7;9< 6/2A/4>/ ./C45= >1@27;=. 7 <7 4 1 ./ '794F
A4 1 475 78 ./J;//5 1 /2?145' 4 A/2 145 ./#
1 :/99 1 ./ 2/' 78 ./ ?454' /2'# :/2/ 1=145' 4)
0!35 ":# ./: ! ! - - %# -# !"#!0! ;: <:
":# B.##!': -/$# 3#- ":< $$ #-":/0 !" :<:
% " 1#-":#5% 5: # 0<< 0!"0 $#/#!" !
:0$" "2#9 ! "0 //# $:H# -5 !<# .$# 50.
!< # " >#%5 3# # " 33 <. # 9$# "<0!D
"#$! "0!:#$# :#5 ##":#5 $# !!0 <0!-"0!"0
.//0$" ":# ; $!< # ;# #!9 9# E !# #$;#$#":#
11 $ 01 $!<# ! 0 33 /0 ".$# G
H +5)1 B;9 9 7 9;01 6,-7 8-,,)7 *01 +B,-,';?? ?5
9>4B +5 ?*7 50 +B;? ?>=J,4 +B*+ B, 45>)1 05+ *0? 6,-
9, ?*;1 ;+ 6*? ?>4B * C-,4,1,0+ +);*+ 9;EB+
459,'B59,'+5 +B,9 *+)*?+ +B*+ +B,-,' @*?5+B,-?+B*+
C-,+,01,1 +5 +);,' 4-5@0 78 C*;0 *? @,))' *? +B,'
C-,?,0+ D;0E *01),8+ B;9 +5 J>1E,'B5 +B*+ 65>)1
@/');D,1;8 @, 6,-,'+5 *4+ *? +B,7 15
H 4 57 5/A/''120 7 2/6/1 199 .1 61''/<# @;
>./5 1C/ ?0'/98 7 @/ 45 ./24=. # 1?16 /57;=. #
7 '+ /1C 69145 87;5< ..5 >/20 A19?' 15< />/5 A75F
A/25/< 4.7;'<7;@ # ./0 /06/A '.199 @/ 2/A199/<#
15< :4 @/ '7220 48 4 '.7;9< '7 .166/5 91'
79< .4?# :14 /< .4 1D/' 0& 72</2'# 15< A7;9< '10
57 .45= 7 .4 ?1 /2 .1 ';667'/< '.7;9< .1>/

./?'775# 15< ./5' : 7;9<1AJ;145 .4? /'.76/< 7'//'?/'1 75 145/@9/1;

H' C57:' ./' C45=' 72</2/< '</' 72A0' 7' '78/5' .4'' ?1 /2' 1'' ?;A.' 1'' ./' A7;9< 7' ?/' '.1>/' .7;=. '' 78' 91045=' .4'' :.79/'A758/2/5A/# :.4A.'91' /< 15' .7;2# @/872/' .4'' 1D/'0# ?0'/98' '4'' '7' 54A/'1' ?1 /2# 15< ./2/'4'' 57' 2/9045=' 75' 150 .45=' .4'' A7;2' '10'' 72' <7/'# 18 /2' :.1' :/'.1>/'''//5# .1' '1?' 184£14< '7' ?;A.' 1'' 7' =4>/' 150' 7645475) 15<4' :7;9<' @/' @/ /2' 48' ' A7;9<.1>/' ./' .757;2' 7' <4'A7;2'/'.4'' 1D/'0' 75' .4'' ';@D/A # @;' '' '4 '8/12' ./2/'5/>/2' :499' @/' 150' 2/1 45=' :4 .' .4'' A74; # :4 .7;'=2/1' >4=7;2' 15<'2/'79; 475# 15<' (' '' " ' ' ' " -

5' /6 /?@/2' 3# 1'9/ /2' 7' 2' 91 .:10' 2/1 '' 78' .4'' '1?/'';@D/A # ./'45 /2A7;2'/' :4 .' ./'H'A19?'I' 0/' H'A75A/25/<I'</' 72A0# :.7?' 72<' 15A./' /2' @/./>/<' 7' @/'6/2'7519900'7667'/<' 7' ./'2/A7=54 475' 78' ./'62/ /5</<' 245A/'78' 19/'# 1'' "45=' 78' 5=915< *' 1'2/A7=54 475' :.4A.# ./'2/6/1 '# :1'' @27;=.'1@7;'@0' ./'4589;/5A/'78' <?/'</' 145 /575' 15<' ./' 1;6.45' *' ./42' 4589;/5A/'H'A1224/<' .4'' 6745 I

;# 1<<'' 72<' 15A./' /2 *

H' ./0' ?10' .1>/'2/1'75' 7' 2/6/5) 872' '.7;9<' 1C/'?0'9/1>/# 1'' 4' 4'' =/5/21990'@/94/>/<' 4' A1557'@/' 7 ./2:4'/# 4' :7;9<' ?1C/' ./?' A75'4</2' :.1' ./0' .1>/'<75/# ./42' 188142'' ./2/'@/45=' 45' '7' 4' 1' A75<4 475# .1''.7;9<' :/'/5=1=/'45' ./' :12# 1'' :/' ?4=.# ./0' :7;9<' 845<' ./?''/9>/'' ?4' 1C/5' ./'A.4/8'45<;A/?/5' '7?/' .45C' :1'# 9/'' ./' :729<' '.7;9<' .45C' ./' C45=' :1'' 18214<' 7' <7' 4

H' ' 79<' '</' 72A0# ' :14 /<' .4'' 1D/'0&'' 72</2'# @; # 1'' 827?' ?0'/98# '45A/' '.1<' .4'' 76672 ;54 0# ' :7;9<' /99' .4?'2/1990'?0'?45<' .1' ./' ?4=.'/1'490' 4?1=45/' ./'2/1'75' '<4<'57'A7?/' 7' !/2'1499/'# .1'' A7;9<' 57'.12<90'@/94/>/' ./' A7;2'78' 215A/' :7;9<' .1>/'=4>/5'1' 4 9/' 7'150'75/# :.4A.'4'' 7590'<;/' 7' ./

C45=5 ?05?1' /25 510# />/55 485 : /5.1<5@//55'75;5.16605 1'5 75 @/5 /5=1=/<5 455 15 :12# ?;A.5 9/''5 :.495 @4'5 1?@1''1<725 :1'5 ./2/5 .15 45 :1'5';A.5 15 62/A/</55 .15 ?4=.5 A7?/5 .7?/5 75 ./?5 15 91' # ./25 @/455=5 7./2'5 .15 62/ /5</<5 75 ./5 A27:55 785 6145 I

8 /25 2/6/1 455=5 ./5 </ 149'5 785 .4'5 18eC42# 1'5 795<5 455 ./5 62/A/<455=5 9/ /2# 155<5 ./5 1'';215A/'5 785 5</5 72A0# .15 ./5 2/A7=54 4755 :1'5 155 /?6 05 872?194 0# 15 >1455 A7546942 6/55 75 ./5 '755 785 $1?/'5 # @455<455=5 ./5 "455=5 785 215A/5 75 575 1A 4755 :.1 />/25 1=145'5 "455=5 4 41?# 725<5 15A./' /25 A4>4990 /O62/''/<5 .4'5 7645475 5 .15 7;4'5 % !5 H5 :1'5 1@7>/5 150 .455=5 785 .15 51 ;2/5)I5 @;5./51<<'5 .4'5 A75>4A 4755 75 !/2575# .15 199 5 .4'# 1'5 :/995 1'5 1'';215A/'5 785 </'42/5 75 @/5 15 6/1A/5 :4 .5 5=915<#5 :1'5 '14<5 H5 7590 75 1?;'/5;'15</5<'5 @05 1=1455 62767'455=5 .15./5'.7;9<5@/5 2/A199/<5 /;25B5 45=5 ./55 75 '6/1C5 785 ./5</A/1'/<5C45=#5./5'10'5(* H5 ./5 :4995 785 ./591 /5 C45=5 4'5 76/5/<#5@;5 57 5 0/5 6;@.'./<#5 .7;=.5 5./1255 4 5 4'5 75 @/5 6245 /<5 .15 5 .1>/5 9/125 5 4'# .15 ./5 J;//55 4'5 ?1</5 /=/5) .15 ./5 2/5A.5 C45=5 4'5 </'42/<5 75 1C/5 A12/5 785 .4'5 v ./5 245A/&'[/<;A1 4755) .15 455 A1'/5 ./5 @/5 2/'72/<#5 ./5 J;//55 4'5 75@/5614<5 199 5'./5.1'5914<57;5785./25 7:5) .15 1 5 7./25</@ '5 A75 21A /<5'45A/5 ./05 9/8 5 5=915<#5@/45=5 ?1</5 7;# '.199 5@/5 614<5) .15 ./5 5/:5 C45=5 <75 57 5 1C/5 1505 2/>/5=/5 1=145'5 ./5 /5/?0'5 785 ./5 C45=5 .4'5 81 ./2# 5725 .4'5 7:5) .15 ./5 '.199 5 57 5 ;'/5 1505 872A/5 455 ?1 /25 785 2/94=4755) 5725 455 2/91 4755 75 ./5 /'1/'5 785 1505 6/2'755 :.1 '7/>/25 /5 2/A7??/5<'5 75 .4?5 199 5 .15 .1>/5 87997:/<5 .4?5 5 1?5 795<5 725<5 /2 .5 4'5 </A912/<5 1 5 ;C/# 15<5 12099# 1 5 725<5 5 <75 57 5 <7;@5 @;5 :/5 '.199 5./125 785 '/>/219 5 5/:5 4 9/'5 15<5 12 /25 5 /2 14590 ./25 7;=.5 75@/5 '7?/5 '765 6;5 75 199 5 .4'# /9'/5 :/5 '.199 5 57 5 C57:5 :./25 :/5 12/ I

./5 67'4 4755 785 "45=5 49941?&'5 1?@1''1<72# 15 1 5 A7;25 :./25 :75 C45='5 785 5=915<5 :/25 1AC57:9/<=/<# :4.5 1'' 275=58//.5=#.7:/>/2# 455 81>7;25 785 ./5 .275/9/''

C45=# :1'' /?@1221''45=' /5744=@' 45' '64 /' 78' @/' 6794 /' 1'';215A/'' 78' ' </' 72AO# .1 ' ./2/' :1'' 57 .45=' 45' 4 ' 72<' 15A./' /2' ;2=/<' ./' 5/A/''4 0' 78' .4'' @/45=' 2/A199/<

H' ' :1'' ;5 :49945=#I' ./' '10'# 45' 1' 9/ /2' 78' /6 /?@/2' Q# 7' !/2575 * H 7' 64&/'' .1 ' ?1 /48# 9/'' A75D/A ;2/'' ?4=.' .1>/' @//5' 6;' ;675' 4 # 7' ?0' <4'1<>15 1=/# .7;=.' ' .76/' 4 ' 4'' 16612/5 ' ./' 7590' /5<' 15<' 14?' ' .1>/' 4'' .4'' 1D/' 0&'' '/2>4A/# 15<' ./' .757;2' 78' ./' 51 475') 15<' 48' ./' 4?61 4/5A/' 78' ' 1045=' ./2/' .1<' @//5' ./' 7590' 45<;A/?/5 ' ' .1<# ' 1?' '1 4'84/<' 944'' A7;2 ' :499' A75 24>/' ?1 /2'' '7' .1 ' 4 ' A7;9<' 57 ' @/' 975=' @/8 M2/' ./0' :7;9<' 7@94=/' ?/' 7' @/' =75/ ' ./42' 1A 475'' '947:' .1 ' ./2/' 4'' 57 .45=' 9/8 ' 57 :' @; ' .1 ' ./' 7 :545=' ./' 62/ /5</<' 6245A/# 48' :72<'' A15' ?/15' 150 .45=# 4'' 1=145' ' ./' .' 12 4A9/# 15<' ./' 627.4@4 475' 78' 7;2' A7??/2A/# A75 2120' 7' ./' 3' .' 78' ./' 2/1 0' 78' 0' :4AC ' ;' ./''/' 12/' '?199' ?1 /2'' 7' :.1 ' 07;' :7;9<' .1>/' ''//5' .1<' 4 ' @//5' 45' ./42' 67:/2' ./' 7590' '1 4'81A 475' :/' .1>/' 4'# .1 ' 199' ;276/' ?;'' @/' A75>45A/<' :/' 12/' 57 ' ./' 1==2/''7;2'# 15<' 5=915<' ?;'' @/' '1 4'84/<' .4'' 1D/' 0' 4'' 57 ' 872' /5=1=45=' ./?' 45' 1' :12# 48' 4 ' A15' @/' 62/>/5 /<I

72<' 15A./' /2' 2/6/1 '' 7' !/2575' ./' 1557;5A/F ?/5 ' 192/1<0' ?1</' 7' 91 .:10 ' 45' 2/8/2/5A/' 7' ./' :499' 78' ./' /OB"45=' $1?/'# 1<<45=' 1' A7??/5 ' 75' ./' /' 1?/5 120' 45' 2;A 475'' .1 # 45' A1'/' 78' 1' 2/' 721 475# 1 ' </@ '' A75 21A /<' @0' ./' /OB27O1' 81?490' '45A/' ./0' 9/8 ' 5=915<# :/2/' 7' @/' 1AJ;4 /<* 7' .4'' /88/A '(* ' H :.4A.' ?10' @/' 1' A75'4</21@9/' 12 4A9/# 1'' .4'' A7;2 ' ;5</2' 15<'' 4 ' * ./' 2/5A.' A7;2 ' />4</5 90' 15 4A461 F 45=' ./' </94=.' 78' ?1C45=' ./1>0' A914?'' 75' ./' 5=.'.' 2/1';20' 872' ./' .7'64 194 0' 2/5</2/<' 7' ./' 8;=4 4>/' ;12 '' ' ;2545=' ./5' 7' ?4572' A7;2 B12215=/?/5 '' 72<' 15A./' /2' :24 /''(*

H' 0' .4'' :45# 72<' 4<<9/ 75' 4'' </A912/<' ;C/' 78

75?7; 94# @; 4 4" '14< ./ :499 57 1C/ 4 72<
/2 .# @0 15 79< 61 /5 # 4" 1 <;C/# 15< 1209 1 @1275
./2/ 12/ '/>/219 7 ./2'# 57 0/ </A912/<# '7 .1 ./
7;'/ 78 72<" :499 @/ :/99 8499/<# 1 ./42 2/ ;25 /
'.199 ./12 '775 78 '7?/ 12 /2" <4'67'/< 78 4" 1
A7?4A19 'A./?/# 15< .76/ 4 :499 /5< '7) .7;=. 4
:499 @/ <4884A;9 7 ?1C/ ./? ;5</2' 15< 4 45 .1
?155/2

./ 6E7' 78 5=.'. 1?@1''1<72 45 124" :1" A9/1290
@/A7?45= ;5 /51@9/# :4 . <4=54 0 B72 62784) 15< 1
9/5= . 72< 15A./' /2 2/A/4>/<# :4 . =2/1 '1 4'81AF
475# .4" 72</2" 78 2/A199 * 72</2" .1 .1<''?199 A/2/F
?750 45 ./?# 1" 812 1" ./0 2/8/22/< 7 ./ 1?@1''1F
<72&" @/1245= 7:12<" ./ A7;2 78 215A/ 5
A 7@/2 ./ :24 /" 45 /OA/99/5 ''6424 " 7 ! /2575(*

H 1' 54=. 1224>/< ./2/ 1 ?/''/5=/2 827?' 77
2 91 .:10 1AJ;145 " ?/ .1 .4" 1D/' 0# .1>45=
A75'4</2/< ./627A//<45=" 78 .4" A7;2 # <7/" 72</2 ?/
7 2/ ;25 7 5=915<# 872 .:4 .# :4 .7; 1C45= 9/1>/#
7590 9/ 45= </ 72AO C57 : ./ 2/1'75" :.0 .4"
40/' 0 <7/" 57 .45C 4 872 .4" .757;2 572 .4" '/2>4A/
7 A75 45;/ 150 975=/2 150 1?@1''1<72 72 ?454' /2
./2/
H 6;267'/ 7 '/ 7; 45 9/'" .15 /5 <10'# 15< <7
</'42/ ./42 OA/99/5A4/" ./ 72<" $;' 4A/" :499 72</2 1
01A. 872 ?/1 1914' A1557 @; .45C .4" 2/'79;F
475 4" 24=. # 15< 1?=91< 4 4" '7 1C/5# .7;=. 45 2/91F
475 7 ?0'/98# A7;9< .1>/ :4'./< ./2/ .1< 57 @//5
15 7AA1'475# '7 .1 ? 4=. .1>/ 9/8 .4" A7;2 45 1
@/ /2?155/2 45 /5< 7 9/1>/ / :4" ./2/# 7 1C/
A12/ 78 ?0 188142'# 18 9/1' 499 .1>/ <4'A7;2'/< 07;# 4
:499 @/ 78 '7?/ 1<>15 1=/ .1>?=' '7 =77< 1 62/ /5A/ I

" 45 4?1 /< 7 ! /2575# ./ 612 45= 45 /2>4A4> :4 .
</ 72AO 77C 691A/ H 1AJ;145 /< </ 72AO# I
:24 /" ./ 1?@1''1<72 7 91 .:10 # A 7@/2 # H 45

. /' ?155/2' 07;' <42/A /<' ? /# 15<' .1>/' /5A97'/<' .4'' 15' : /2' ' .1>/' '7?/' 2/1'75' 7' .45C' ./' A7;2' : 1'' 1' 94 9/' ';2624'/<# .7;=.' ./0' ?4=.' 2/1'751@90' /O6/A' ';A.' 1' 2/'/5 ?/5 ' 7;' :499' '//' ./' 2/8/2'' .4?'/98' 7' ./' A758/2/5A/' ' .1<' :4 .' .4?' @/872/' ' >/5' 7' 75F 145/@9/1;' ' ' ' ?;'' 7:5# 75' .4'' 7AA1'475# ./0 12/' ?;A.' A4>499/2' .15' ' /O6/A /<)' 15<' ' .1>/' =2/1' 7@94=1 475'' 7' ' </' 72AO# :.7' .1'' 75' 199' 7AA1'475'' '.7:5' .4?'/98' /O 2/?/' C45<' 7' ?/# 1'' />/5' 45' .4'' 15':/2' ./''9 /O62/''/''4' /' :499' 627A;2/' ?/' 61''F 672 '' 872' ?O' =77<'# /9'/' ''.7;9<' 57' .1>/' C57:5' :.1' 7' .1>/' <75/' 8 /2' 199# ' .1>/' 2/1'75' 7' @/' >/20' :/99' 69/1'/<' :4 .' ./' 72</2'' ' .1>/' 2/A/4>/<' '45 /5<' 7' '/' 7;' 872' 5=915<' @O' ./' .# :./2/' 845<' ''.199' .1>/' ./' .757;2' 7' 610' ?O' <; O' 7' .4'' 1D/' O' 45' 1' '.72' 4?/ I

./' ;/' </' ' 4?75# 45' .4'' V /?742'#& 2/A72<'' ./' 81A' 78' 72<' 15A./' /2&'' </612;2/# :4 .7;' ./' 872?1. O' 78' 1C45=' 9/1>/# 15<' ./' 1<<'' .1' '' 45=' 49.1?' :1'' 1' .4'' .7;'/# 1' 77# 45' 79915<# :./5' ./' 2/A/4>/<' ./' 5/:'' 78' ./' </1.' 78' $1?/'# 15<' 78' ./' 2/A7=54 475' 78' .4'' '75# 1'' '' 45=' 78' 5=915<# A7 915<# 15< 2/915<' 4 41?' 4'' '14<' 7' .1>/' @//5' 1' 1@9/# 1' ./' 4?/#:4 .' '7?/' /2?15'6245A/'# 15<' '/>/219' ?/5' 78'215C' /' <4<' 57' ; /2' 1' '45=9/' :72<# @/075<' 2/6/1 45=' ./' 5/:'' 4 '/98')@;' .4''81A/'2/<</5/<') ./'6;99/<' .4'' .1'7>/2' .4'' /0/'') 15<' :1'' ;51@9/' 7'C//6' .4''8/1;2/'' A7?67'/<' 4'' 842' ' 1A # .7:/>/2# :1'' 75/' 78' '6424' ./2/' :1'' 1' A.12=Y' <&188142/'B' 1' 75<75# 45' ./' 1@'/5A/' 78' 19912<D' ./' 2/5A.' 1?@1''1<72' 4'' 51?/' :1'' 7;''45/# 15<' '' 45=' 49941?' '/5' 72</2'' .1' ./' '.7;9<' J;4' 5=915<# :4 .7;' </910' ./' 72</2'' :/2/' 627?6 90' 7@/0/<' 5' 1' 8/:' .7;2'' ./' 2/5A.' 7884A419' :1'' 1' 1914' * 15<' ./2/' :1'' @4 /2' .7' 494 O' @/ :/5' 215A/' 15<' 5=915<# 872' '7?/' 94?/

0/12 .1< /916'/< 18 /2 72< 15A.4/' /2& 2/ ;25 827?' 124'# : ./5 ./ 5:/O 9/ /2'# 1AA72<B # 45= 7 <1 /# 1 " 4?@79 75# 45 27<;A/ ;" 1=145 7 6;@.A ?/5 15<?1 /2' ./ 842' 4?672 15 6/2'75 :4 .: .7?: /? // 4" 129/0# 15< .7 :@;'45/' " :1" 215'1A /< 45 [R 2 /A2/ 120 129/O&" 7884A/# ./ 87997 : 45=2/672 # ?1</ 74 W;//5 55/# :499 1@;5<15 90 '.7 : 129/0 :1" /A2/ 120 78 1 / 827?' , 7 , Q# .79<45= .1 7884A/# <;245= 1 672 475 78 ./ 4?/# :4 . ./ /J;1990 4?672 15 75/ 78 6/1C/2 78 ./ 7;'/ 78 7??75' 49.1?' :1" 57 :</1<# 15< W;//5 55/ 2/4=5/< 45 .4" 691A/ ./ =2/1 :12 :4 . 215A/ .1<@/=;5# 15< 129@727;=. :1" 45 ./ 84/9< =2/1 A0A9/ 78 .4' 720 :1" @/45= ?1</# 45 1 84/20# 4?6/ ;7;" ?155/2 75'4</245= :.1 45 /2/' " :/2/ 1 ' 1C/# ./ 7884A419 5/=9/A ' //?" ?12>/997;' 99# 7;2 627D/A " :/2/ @/F 210/< 7 ./ /5/?0# 15< :.49/ W;//5 55/ :1" =215 F 45= 612<75 7 214 72" :.7 .1< 45A;22/< ./ 6/519 0 78 </1 .# 15< 0/ : .7 <12/< A7?/ 827?' 215A/ 45 7 5=F 915<# 7;4" :1" A916645= 45 7 ./ 1' 499/ ';A. 1=/5 " 78 .4" 15< ./ /O49/< ;12 " 1" >/5 ;2/< 7 2/ ;25 7 215A/ :4 .7; .1>45= 1AA7?6.'./< .1 872 :.4A. /0 :/2/ </'61 A./< 45 7 5=915< 5 ./ 7 ./2 .15<# 48 ./ J;//5&" 6794 4A19 '/A2/ " :/2/ @/ 210/< 7 215A/# .7'/ 78 94/ $1A7@4 /" :/2/ @/ 210/< @0 ';A. ?/5 1" 21K/2# 72< 7>1 # 7 ./ J;//5

AA72<45= 7 ./ 155/O/< 2/672 # .7 :/>/2# 4 :1" '7?/ .45= ?72/ 4?672 15 .1 :1" <4>;9=/<# .15 ./

?/2/ </ 149'' 78 7;2 6794A0 7:12<'' ./ $1A7@4 /'
872/4=5/5/?0:4.:.7?:/.1< 7A75 /5<:1'' ?1</
1AJ;145 /<:4.:.1'61''/<45./W;//5&'' 24>0 7;5A49
72;51 /90#./ 214 72''J;122/99/<1?75='./?'/9>/'#
15<@/ 210/</1A.7./2) 572 <4<./ /5/?0 62784
?;A.@0:.1./0 9/125/< 4.45./ 0/12'' 78
129/0&'' '/A2/ 120'.46# 129@727;=.A1224/<./ 1>1F
2415 /5 2/5A.?/5 '' 1 A./ /5@/2=# 1554.491 /<./
2/5A.67:/2 45 /2?150 $MO./>4A 720 78 9/5./4?#
15<#./2/@0#'1>/<./ /2?154A/?642/ 4'' 24;?6.
1 1?4./'''/A;2/<./ /.2915<'1'' /224 720@/975=F
45= 7 H .129/'' #I./ 12A.<;C/:.7?:/:/2/
';6672 45=1'' "45=78 6145 1=145'.4946#./=215<'75
78 7;4'' % ;2#';@'/J;/5 90# 199 7;2 1<>15 1=/''
:/2/5/1290 97'#:./5 /2:4AC@/1 19:10 1 9?15K1')
7;975:1''@/'4/=/<45>145#1 912=/872A/:1'';'/9/''90
</1A./< 7 169/'#15< 129@727;=.1< 7A75 /5<
45 915</2''1=145'!/5<|?/#:.7?157/;>2/<'7'C499F
8;990 15< 67'/<.4?'/98''7''275=90.1 129@727;=.
<12/<57 1 1AC.4?#15<1'<4>/2'475 45 81>7;2 78./
1 4`''@/'4/=45= 7;975:1''2/5</2/<&4?621A 4A1@9/

U

C * /#
07;2 1D/'0&''?7''<;48;9';@D/A '#./972<''6424;19 15<
/?6721945 612.1?/5 1''/?@9/<#.1>45=/5 /2/<45 7
1''/247;''A75'4</21 475 78./''14<''/>/219 2/672 '#.1>/
;5154?7;'90 A7?/ 7./87997:45=2/'79;475''./2/F
;675 .1 4 'B4'' 76?475.1 ./A24?/78 :.4A.
49.1?2/=''15<''1 145 /<4''78''7./457;''1 51;2/#
15< 1 /5</<:4.';A./O 2172<45120 A42A;?'15A/'#
.1 4 '?10 627>/'78>/20 6/254A47;''A75''/J;/5A/''48./
'.7;9< 57 @/?1</15 /O1?69/ 5<#19'7# .1 4
<7/'' 6914590 166/12 7;'#1'':/99 @0:.1 9/O15</2
!1./2/15< $7.5 121.1>/B?872?/<1=145''/1A.
7./2#1''@0./?150 /O1?451 475'' 1C/5 A75A/2545=
./?# .1 ./0:/2/@7.'45./ 2/5A.'45 /2/'#15<

;584' 7'@/' 2;' /<' 72' /?6970/<'@0' 150' 6/2'75'' 45' 07;2'
1D/' 0&'' '/2>4A/' 5<' .1' ./' 76/5'15<'6;@.A' ?155/2'
78' ./' A722/'675</5A/' ?151=/<'@0' ./?# :4 .' ./'
=7>/2572'' 15<' A7?? 4''124/'' 78' 1914'' 15<' 7;97=5/#
A7;9<' /5<' 7590' 7' A1220' 75' 15' 45 /994=/5A/' 7' ./'
1<>15 1=/' 78' 07;2' 1D/' 0&'' /5/?4/')' 15<' .1' 4' 4''
.4=.90' 627@1@9/# ./2/@0# 94/' '1 475'' 78' 7;2' A2;4'/2'#
./' '2/5=.' 78' 7;2' A75>70'# 15<' ./' 4?/'' 78' '14.5=' 78'
7;2' ?/2A.15' '.46'# .1>/'@//5'@/ 210/<' 7' ./' 2/5A.
H 10' 4' 69/1'/' 07;2' 1D/' 0# 4' 4'' 07;2' 1D/' 0&''
=9720# 15<' ./' .16645/''' 78' ;276/# .1' 07;' 12/'1' ./'
./1<' 78' 75/' 78' ./' =2/1 /'' A758/</21A4/'' .1' />/2' :1''
C57:5'45'.4' 720)' 15<'4'4'' ./' A7??75' A75A/25' 78' ./'
:.79/'1 415A/# .1' 07;2' A7;5A49'' '.7;9<'@/' C/6' R<.'
./'' 24A /'' '/A2/A0' ;#45' ./' 616/2''57:'914<'@/872/'
076# 07;2' 1D/' 0' :499'@/' 69/1'/<' 7' 7@'/2>/' .1' '7?/'
78' 07;2' 2/'79; 475'' 78' ./' =2/1 /'' ?7?/5# 15<' .1'
2/J;42/<' ./' ; ?7'' '/A2/A0# .1>/'@//5' '/5' 7' 07;2'
/5/?4/'' @0' ./'1?/'67'' ./0' :/2/'</'61 A./<' 7' ./'
1994/'' .1' 199' ./' 616/2'' 45' 2' /A2/ 120' 129/0&''
7884A/'.1>/#872' 1' A75'4</21@9/'4?/#@//5'/067'/<' 7' ./'
>4/:'/>/5'78' ./' ?/15/'' A9/2C'' ?' ./' 7884A/') 15<' .1'
./' 6/2;'19' 78' 199' ./' 9/ /2'' 7' 15<'827?' ./' 4 2/5A.'
624'75/2'' :1''A.4/890' 2;' /<' 7' 2/=# 1' 6/2'75' 78' >/20'
';'64A47;'' A.121A /2# 15<' C57:J' 7' @/' /0 2/?/90' 45<4F
=/5' '4'' 57'/1'490' 7'@/'C57:5':.1'499'A75'/J;/5A/''
?10' .1>/' 1 /5</<';A.' 5/=94=/5A/# @;' :/' </6/5<'
;675' 4' .1'';A.' ?1 /2''@/?=' .;'' 6914590' 914<' 76/5'
7' 07;2' 1D/' 0# :/'.199'@/''/A;2/<'1=145''150'<15=/2''
78' .4'' 51 ;2/' 872' ./' 8;;2/
¢ H /' 12/' 8;2./2' 45' <;0' @7;5<' 7' @/'//A.' 07;2'
1D/' 0' .1'199' 67''4@9/'?/1';2/''?10'@/';'/<' 7' 6;'1'
'76' 7' .1'<15=/27;'# 15<':.4A.'?10''775' 627>/'81 19#
45 /28/2/5A/'@/ :/5'07;2' 1D/' 0&'';@D/A'' 15<' 215A/#
:.4A.' .1'' 78' 91 /' 2/A/4>/<'7' =2/1'15' /5A7;21=/?/5#
@0' ./' A7;5 /515A/' 15<' 627 /A 475' =4>/5' 7' !194/2/'
15<' 121)' '?//# ;59/''' .1'@/' /88/A ;1990'<75/# 07;2

1D/' 0&/5/?4/: 499A75 ?;/ 7.1>/ : .1 45 /994=/5A/ ./0 69/1'/ 7;2 1D/' 0&? /5B78B : 12 15<? /2A.15 '.46S : 499 8//45 <15=/2 78@/45=@/ 210/< 7 ./ 2/5A.') 15< .1 ? 7' </' 2;A 4>/ 21</ 78 '/5<45= : 779 7 215A/# : .4A. .1'@//5 : 4 .? ;A. J.12=/ 15< 27;@9/ 45 /22;6 /<## 15<E45 =2/1 # ? /1';2/ ';662/''/<# E: 499 @/ 2/>4>/< 7 1 =2/1 /2 </=2//.15 />/2 I

J *)>+);66;K;6:> 2134;$;)>

* 1?'7220.1 150 : .7 .1>/@//5 /?6970/<@0 .7'/45?0'/4:4A/'.7;9<.1>/627>/< 819'/7./?E2;' 145<45D;247;'7./6;@94A

HB ./ /O1?69/' 07;'910@/872/?/ : 499# <7 57 <7;@ #@/1';484EA4/5 : 12545= 7C//6 1 ?1 /2' 78 4;4B 672 15A/1' 'A2/ 1' ?10@/# 15< 7/?6970';A. 7590 1' ./2/ '.199 @/ =77<# =27;5<' 7 @/94/>/ : 499 @/ 8O;+B f[< 2 2

8/8/2/5A/.1' @//5 +/1<0 ?1</ 7 ./ A7;2'/ 1<76E/<@0 5=915<45 ./ : +2# : .4A. 127'/7; 78 ./ A914?' 7 ./ ';AA/''475 7 ./ 6154'.a .275/ 7 7

7 ./A7;2 78 !4/551# 1'1?@1''1<72 `4 }1~2<45180 ./87997:45=9/ /2'827?' 72<;5</2915<a15< 2 129/0# '/5 18 /2 ./ #/129 7 12:4A.# ./5 7;2 A944/8 672 78 </612;2/872 79915< 15< /2[6150# A75 1?' '7?/78 ./45'2;A475'X:.4A. ./ :1' E7 87997: 1 .` 4?6/2419 A7;2 * ;5</291;< 4' ./# 72< :.7 ';AA//</ 7# .Y 4 9/45 , #B ./ =215<'75 78 1A.124''1# 15< ./ .;'@15< 78 55/# 129@727;=.E'# <1;=. /2(*

*-4B $ $%O

* 1>45=2/A/4>/< @0 ./91' 67' 827?' 190 15 1AA7>? 78 15 1=2//?/5 @/ :// 5 245A/

;=/5/ 15< ./ 245A/ 7 8 !1;</?75 872 ./ :4 .B <21:.4= 199 ./ 2/5A. 2776" 7; 78 190# 15< 1662/F ./5<45= 9/' ./ A7;2 78 !4/551 ;6 5 .4" ?{40 @/ ?72/ 45 /5 .15 />/2 ;675 ./E </'4=5 78 '/5<45= 2776" 7 ./ <.=<7?78 169/"@ 15< 75' ! 20@/2= .1>45= 45 1 ?/?72419 7&./2 1D/' 0 2/64D/'/5 /< ./ '125/ .45='#./2 1D/' 0#.1"A7??15</<?/ 7 1AJ;145 07;2 72<'.46 .1 4 4" ./2 69/1';2/ .1 07;<7 .1' /5 074;a D7;25/0 6 !4/551 1'E?;A. 1" 67''4@9/# <5< .1 07;<7E 2/62/'/5 6 .1 A7?&# 45 ./2 1D/' 0&" \1?/# .7: </'2;A 4>/ 150 ';A. </'4=5 :7449< @/# 7 ./ A122045= ./:12 45 7 M1;6.45/ 15< 27>/5A/D 0.4A. 4" '/ 9/< 15< A75A/2 /< :4 9D ./ ;C/ 78 1>70# 15< >.4A. 4" .`759 0:10 @0:.4A. 215//A15 @/ 188/A /< 72 1 <4>/2'475 ?1</45 81>7;2 78 "45= .x49/' a :499 57 /5912=/';675 .4'#@/A1;'Y 07;:499 2/A/4>/4 ?72/ 8;990 827?2 /A2/ 120 149/0 ''/5< 07;#/5A97'/<X# 1 A760 78 ./A75>/5 475 @/ :// 5 245A/ ;=/54 15< 2444A/ !1;</?75 # 15< @8 157 ./2 616/2 :.4A. 4" ./ ;C/ 78 1>70&" 2/?12C'#;675 '7?/ 78 ./#12 4A9/'&15< 19'7 78 2 ! 20@J2=&" /?72419 # 1C/ 872=215 /< .4" :499 845< 07z 1 494 1 12:4A.#+ :./2/ E/?18214< .4" :45< 2. C//6 07;N@;~7$=5= A:4'.#07;1 =77< >701=Y 15</>/4 .45= 7 07;SB'1 4'81A 475# 15<'1?# :4 . =2/1 2/'6/A # 07;2 72<'9446&" ?7' .;?@9/''/2>15 #

E L ; J

– –

J #' 8+C

(;O *-4B ;'-MILJ

* !)+ 1?' >Y20 '7220 ./ 499 ' 1 /' 78 ?0 ./19 ./ /5</2/< ?/'7 ;5872 ;51 /'1" 57 7 845< 074;E 72<'966 1 07;2 6:5.7;'/#15< .1 :1"57 45 1 A75F <4 475 7 2/A/4>/07;2 OA/99/5A0 :./5 07;<4< ?/ ./ .757;2 7 A199 1 ?45/ @/872/ 07;9/8 ./ 7:5 .7;=. '.7;9< 57 .1>/ .1< 7AA1'475 7 =4>/ 07;' 150 27;@9/'7'775 ?72/ .15 7E :4'94 07;2 OA/99/5A0 1 .1660 15< 627'6/27;" D7;25/0# @; .4" ?72545=

, - :

.4?' ?0' ' 10' ./2/' :7;9<' @/'>/40' '.72 #' '45A/' ./' A7;9<' 57' @;' @/' '/5'4@9/' 4' ?4=.' @/' 5/A/''120' ' '.7;9<' @/' 1' !4/551' 1'' '775' 1'' :1'' 67''4@9/) .1' '<4<' 57' .45C' 78' '1045=' 975=' ./2/# @;' .1' ' .1<' 72</2'' 827?' ./2' 1D/' 0' 7' 1A'45' A75A/2':4 .' ./' ?454' /2' 78' ./' 1/'B' =/5/219' 45' />/20 .45=' .1'?4=.' @/' 872' ./' A7??75' A1;'/) ./' '//?/<' >/20' /1'0# 15<' '14<' ./' .76/<' 2' ?/97' ?4=.' @/' 1' !4/551' 1@7;' ./' '1?/' 4?/# .1' ./' 1/'' :7;9<'=4>/' ./' '1?/' <42/A 475'#'7' .1' ' .45C' .1>/' 57 .45=' ?72/' 7' <7' ./2/# @;'45 /5<'1'' '775' 1'' A15' 7' '/' 7;' 872' ;''/9<728# :./2/' '.199' 6;2';/' ./' <42/A 475'' 07;2' 21A/' .7;=.' 6276/2# 15<' '7' 7' 10/5A/' 45' A1'/' ./' 9/A 72' 4'' ./2/' ' ?1</' 07;2' 21A/&' A7?6.?/5 8/' 7' ./' /5'475120# 15<' ./' 4'' >/20' =91<' 7' ./12' .1'07;'45 /5<' 7' @/' ./2/' '7' '775' '1?# :4 .' ./' =2/1 /''2/'6/A'4?1=451@9/' 15<' 2; .#

H 7;2'# / A I

5' .4'' 271<# ?4''4>/'' 7>/2 1C/' ./' 1?@1''1<72' 75' @/.198' 78' =/5 9/?/5' 1' 94 9/' 45' <4' 2/'' 15<' =2/1 90' </'427;'' 7' @/' 1A 4>/90' 15<' 62784 1@90' /?6970/<' '4'' 69/1'15' 7' 845<' .1' ./' @27 ./2.77<' 78' 79<' /' ?45F ' /2' /O4' /<' >4=727;'90# 975=' 18 /2' ./' 'A.779' <10'' .1<' A7?/' 7' 15' /5<') 45' 499;' 21 475' 78' >.4A.# ./2/' 4'' /65/0' 45 /2A/<45=' 872' 4AC'# 15<' 4AC'' 4'' 1' 07;5=' 8/997:# E:49.5=' 15<' 1@9/' 7' ;25' .4'' .15<' 7' 150 .45=' 45' ./' /129&'' '/2>4A/' .1' ./' 1'64215' :1'' /O1A' 45' .4'' 124 .?/4A' 15<' ?1' /2' 78' ?150' 75=;/'' '6/1C'' :/99' 872' ./' 79<' 'A.779B45' .7'/' <10'' 7; .' 45</'/<' '14<' 78' 4 # 15<' /65/0&' 9/ /2' :7;9<' '//?' 7' A75842?' 4 #

,=-?,>?' -? 4>?H>,' >O5' 4,-0>0+>-';O' OE)5
U>;' C>,-' B>,' OE)>?' 6,O,-*+',P;+' -*=?N

15<' >/905' .1'' 2/A72</<' .4'' 1' 754'.?/5'1' ./' 627F 84A4/5AO' 78' ./' 6;649'

/65/0# ./' :24 /2' 78' ./' 87997:45=' 9/ /2# :1'' 1' ?4572' 67/' 15<' '1/'?15# :.7' :1'' /9/A /<' 7' O872<' 45' 3Q # ./' 0/12' 18 /2' 1' 2472# 67/' 15<' '1/'?15

:1'‘ 1<?4 /<‘ 7‘ ./‘ A799/=/‘ 78‘ ‘ / /2‘ /65/0‘ 15<‘ 4AC'‘ :/2/‘ " ‘ :./5‘ ;'@0‘ :1'‘./1<‘ ?1' /2# 15<‘ :/‘ '//‘ 6/2.16'‘ '7?/‘ /D /A‘ 78‘.4'‘ /1A.45=‘ 45‘ .4'‘ 9/ /2‘ :44 /5‘ 7;‘ 78‘A.124 0‘ 15<‘ 872‘ 94/‘ '1C/‘ 78‘ 79<‘ 1AJ;145 15A/‘1‘ /' ?45' /2‘(*

‘ ‘

‘D ' ‘‘ *-4B<# ‘ $%$

‘ ‘* ! 1 + 4a‘ 4AC'# :.7‘:4 ‘62/'/5‘.4'‘9/ /2‘ 7‘ 06;0‘ OA/99/5AO# .1'‘@//5‘45‘ >/20‘ =77<‘ A42A;?' 15A/'‘ .7;=.‘1‘62/'/5‘./‘4'‘2/<;A/<# ‘8/12# 62/ 0‘97 :) 15<‘ .1'‘.4'‘A.4/8‘.76/'‘45‘1‘627'6/A‘78‘64AC45=‘;6‘45‘ 215CF 872 # /;2/?@;2=# 15<‘ 7 ./2‘ 612 '‘ 78‘ /2?150# '7?/‘ 'A1 /2/<‘</@ '‘ :.4A.‘?10‘./96‘ 7‘t2/J;4 /‘.4'‘872 ;5/) @;‘1'‘./‘.1'‘57‘ :./2/:4 .19‘ 7‘@/12‘ ./‘ /O6/5'/'‘ 78‘ ';A.‘1‘D7;25/0# ./‘.1'‘</'42/<‘ ?/‘ 7‘2/A7??/5<‘.4?‘ 7‘ '7?/‘ 612‘ 78‘ '/2>4A/'‘ 45‘ 07;2‘ OA/99/5AO&'‘ 81?490# :.4A.‘‘A7;9<‘57‘2/8;'/‘.4?‘7;‘78‘A.124 0# 15<‘872‘ ./‘ '1C/‘ 78‘ 79<‘ 1AJ;145 15A/‘1‘ /' ?45' /2‘ /‘ ;5</2F ' 15<'‘ '/>/219‘ 915=;1=/'# 15<‘ ?10‘ @/‘ ;'/8;9‘ 7‘ 07;2‘ 81?490‘;675‘ ./‘271<) /'6/A41990‘45‘ :.1‘2/91 /'‘ 7‘ 07;2‘ 1AA7;5 '# :./2/45‘ ./‘4'‘ >/20‘ /O1A‘ .1 />/2‘ 81>7;2‘ 07;2‘ OA/99/5AO‘@/‘69/1'/<‘ 7‘'.7:‘.4?#;675‘?0‘2/A7?F ?/5<1475# '.199‘ @/‘ ?7'‘ .15C8;990‘ 1AC57:9/<=/<‘ @0‘ ?/# :.7‘1?# :4 .‘ ./‘=2/1 /'‘2/'6/A #

H‘ 7;2‘ 72<'.46&'‘.;?@9/‘15<‘7@/<4/5‘''/2>15 #

F‘ ‘ ; c

5‘.4'‘:10‘ 7‘ ./‘ /O/A;475‘78‘ ./‘?4''475‘ 7‘ :.4A.‘ ./‘ .1<‘ @//5‘ 62/8/22/<‘ @0‘ .4'‘ =7>/25?/5‘ 72<‘ 15A./' /2‘ ?// '‘ :4 .‘ 7 ./2‘ 9/ /2'‘ .15‘ .7'/‘ 45‘ :.4A.‘ ./‘ 4'‘ 6/ 4 475/<‘ 7‘ A758/2‘ 7884A/‘ 45‘ .4'‘ .7;'/F .79<‘ 75‘</A10/<‘ =/5 9/?/5‘ ./‘ 9/A 721‘ 81?490‘ 78‘ 157>/2‘.1<‘ 19:10'‘./9<‘.4?‘45‘ ./‘ =2/1 /'‘ /' //?‘ /‘ :1'‘ :72 .0‘ 78‘ 57‘ 9/''# 872‘./‘ :1'‘ 75/‘ 78‘ .7'/‘ 872/?7''1A 4>/'?/5‘:<47‘ :/5‘7>/2‘ 7‘ 49941?‘;5</2‘ =2/1‘ 6/2'751‘ 24'C'# 15<‘ :.7# @0‘ ./42‘ <1245=‘ 15<

62;</5A/' A7?@45/<# 914<' ./' 87;5<1 475'' 78' .1 '
=2/1 5/'' 78' ./' 9/A 7219' .7;'/# ./' 872?/2' 78' B:4944A.'
./' 215<' 9/A 2/'' '1:' 842?90' /' 1@94'./<# @;' ./'
91 /2' 78': .4A.' './' :1'' 5/>/2' </' 45/<' 7' /5D7D+
./5' 76.41' :27 /' ./' 87997:45='' 9/ /2# '.' :1''
45' ./' '/>/5 0B'/>/5 .' 0/12' 78' ./2' 1=/# 94/' :1'' ' 499'
94>/90# 19/2 # 15<' 45 /994=/5 ' /:' :7?/5' 78' ./2' <10'
:/2/' '7' 1AA7?694'./<' 1'' './' :1'')8/:' 6/2'75'' 78' ./2'
0/12'' :/2/' '7' ?/220' 72' '7' @;'0# '7' A12/8;9' 45' ?1 /2''
78' .4=.' 4?672 15A/# '7' .1660' 45' 19A45='' 45 /2/'' 45'
?/2/' 2489/'' 15<' 61' 4?/'' ./2/' :1'' 1' A/2 145' 1?7;5'
78' ?4'A.4/8' 45' ./2' /?6/21?/5 # 1'' ./2/' :1'' 78'
$1A7@4 4'?' 45' ./2' 6794 4A'# 15<' 78' 977'/5/'' 45' ./2'
2/94=47;'' 6245A469/'' D 15<' ./2/' :1'' 57' '672' ?72/'
/OA/99/5' 45' ./2' /'4?1 475# .15' 45' '/ 45='' '7?/'
A9/>/2' ;572 .7<70' 8/997:' 7' <4'6; /' 75' <7A 24519'
J;/'475'# 15<' ./797=0' =/5/21990# :4 .' ./2' A.16914 5#
:.49/'.'/'1'@0' /5D7045='' ./' .12<'.4'' 78' ./' 75/# 15<'
./' /?@1221''?/5' 78' ./' 7 ./2# 15<' 57' 612 4A;91290'
A1245='' :.4A.' .1<' ./' :72'' 72' ./' @/'' 78' ./'
12=;?/5
590' :7' 0/12'' @/872/' .4'' 9/ /2' :1'' :24 /5# ;25/'
'67C/' 78' ./' 9/A 2/'' 1'' H' ./' ?7'' C57:45='' 15<' /5 /2F
14545='' :7?15' 78' ./2' 1=/ I' ./' :1'' 75/' 78' .7'/'
212/' :7?/5' :.7' 499;'21 /' ./' ;5<7;@ /<' 2;.' .1'
./2/' 4'' 1' @/1; 0' 45' />/20' 1=/ * 45' :7?15' /'6/A4199O'
./' :1'' =21A/8;9# A7??15<45=# ;5:245C9/<# 15<'
D707;'# 7' ./' 91'' * '' :.4A.' <4<' 57' A7?/' 499' '/>/5'
0/12'' ';@'/J;/5 90' 7' ./' 6/5545='' 78' .4'' 9/ /2' 78' =77<'
>24'./'' 7' ./' /129' ./' .1<' @;' 75/' =2/1' 7@D/A' 78'
1?@4 475# ./' 1 145?/5' 78' :.4A.' :1'' </54/<' 7' ./2'
* .1' 78' <045='' W;//5' 78' 2/1' 24 145# 15<' 78' .1>45='
.1' 81A' 2/A72</<' 75' ./2' 7?@' ./' 61''/<' 1:10#
.7:/>/2# D;'' @/872/' .1' W;//5' 55/' 78' :.7?' './'
'6/1C'' :4 .''7' ?;A.' 2/'6/A) 15<' ./' A27:5' </'A/5</<'
7' ./' 9/A 7219' 245A/# ./2' '75# 15<' :24 /2' 78' ./'
9/ /2' :.4A.' 87997:'' ./2' 7:5

94/ =2/1 =215<'75 : .7'/ @42 . ' ./ 1557;5A/'# 15< 75 >.7? './ 977C/< 1 1 8; ;2/ "45= 78 5=915<# <4/< 1# 94 9/ 77 /1290 872 ./ 1 145?/5 78 .1 =2/1 <4=54 0# 94C/ ./2'/98 .4 A.49<# '7 .1660# 1 .4 =2/1 B=215<?7 ./2 .45C'# 45 @/45= @725 ;5</2 ./ 2/4=5 78 7;2 =2/1 W;//5# :1 2/</24AC# '75 78 ./ 62?A/ :.7 :1 18 /2:12< /72=/ 15< 81 ./2 78 ,5;. 8; 75 78 1 C45=# 81 ./2 78 1 C45=# @; 5/>/2 C45= .4?'/98

.4 </'A/5<15 45 :.7?' 76.41 77C '7 =2/1 15 45 /2/' :1 499 @27;=. ;6# 15< :1 ?7 :4 .7; 612 '# @; ./'/ :/2/ '7 6/2>/2 /< .1 4 :1 1 872 ;51 / 6/2.16 872 .4?'/98 1 872 5=915< * 7 :.4A. ./ <4< 57 A7?/ 4 ./ :1 1C/1<0 ?15 * .1 ./ :1 5/>/2 4 '7>/2/4=5 #

2 / 2 '(9/'NEG< & >249#' $ $

* 7??/D/5/6;4'1>742 9/6914'42 </>75' 2/A/>742 4A4 162`';5/'4 975=;/1@'/5A/# A/?&/''1;?745' ;5/ A75'791 475 @4/5 =215</ </ >742 J;/ >7;' /5 Y?745/K <;' <Y6914'42# / J;/ A/91 581 61' <4?45;Y 9&188/A 475 J;/ >7;' 1>/K 7;D7;2' A75'/2>Y 67;2 ?74 /'67;2 ?1 ?14'75# <75 'D/ >7;' ';4' 7; '^ 814 7@94=Y/' 7??/1;''4 J;/ >7;' 1>/K 91 @75 Y </ 62/5<2/ 612 '^ 91 514''15A/ </ ?75 14?Y 6/4 B849'# 1;J;/9 >7;' D;=/K J;/ D/ 62/5<' =215< 45 Y2 ' ' ' $/ ?/ 2YD7;4' /5 1 /5<15 'J;/ A/ =215< Y>Y5/?/5 '74 '1224>Y '7;' 9/ 2`=5/ </ 57 2/ =215</ /45/ J;4 '/ 2/5< =9724/;'/ </ 7; /' 9/' ?154`2/'# /5 J;74 D/ 62/5< @/1;A7;6 </ 612 ' $/ >7;' '7;.14 /1;''4 ;5 ./;2/;O >701=/# / 'D&/'6`2/ J;&> 7 2/ 2/ 7;2 D/ >7;' 67;2214' <C/ ?74B?/?/ Jh/ D/ ';4'# c

H >/A 91 ? ?/ /' 4?/ 67;2 >7 2/ 6/2'755/#

H 75'4/;2# >7 2/ 2`'B188/A ;/;'/#

H ' >7;' '/2>42#

H; c ' 9/AV ' c

872‘ ./‘ 612 4A;912‘ </'4=5‘ ;675‘ 7;975# ./0‘ .1>/‘ 57 #
1‘9/1'‘827?‘ ./5A/#'7‘ .1‘/OA/6‘ ./0‘'.7;9<?/5 475‘
4‘ 7‘07;#07;‘ :499‘ 1C/‘57‘7 ./2‘57 4A/‘ 7‘ ./?#@;‘ 7‘
62/''‘ ./?‘ 7‘ <7‘ />/20 .45=‘ 7:12<'‘ ./‘ ?145‘ </'4=5‘
78‘ A122 <5=‘ ./‘ :12‘45 7‘ 215A/#15<‘ ./2/872/‘ 1@7>/‘
199‘ .45='‘ 7‘910‘1'4</‘ ./42‘627D/A‘78‘ 169/'
H‘ ‘ 1?#:4 .‘=2/1‘2/'6/A#07;2‘ 72<'.46&'‘ 7@/<4/5‘
'/2>15 #

‘ ;

‘ ‘

F‘ ‘‘ C-;)‘ ‘ $%$

‘ ‘ *‘‘.1<‘ ./‘ .757;2‘78‘07;2‘ 72<'.46&'‘
9/ /2‘827?‘ 215C872‘78‘ ./‘ .‘ 6249# #15<‘.76/‘
07;‘12/‘=7‘@/872/‘ .4''‘ 7‘ !4/551#:./2/‘07;2‘62/''/5A/‘
4'# 88/12# ?72/‘15<‘?72/‘5/A/''120‘/>/20‘<10) 872B@0‘7;2‘
9/ /2''‘827?‘ ./‘ ;C/‘78‘ 1>70‘./‘A7?69145''‘/O 2/?/90‘
78‘ ./‘627A//<45='‘78‘ ./‘ 7;2#'7‘ .1‘07;2‘ 72<'.46‘
A15&‘62/''‘ ./?‘45‘ .7'/‘ ?1 /2''‘ :4 .‘ 77‘ ?;A.‘
/125/'5/''‘ ‘ :4'.‘ :4 .‘199‘ ?0‘./12#07;2‘2/62/F
'/5 1475''‘?10‘?//‘:4 .‘';AA/''‘ 72<‘ 129@727;=.‘
15<‘ 72<‘ 2/1';2/2‘.1>/‘62/612/<‘ ./‘ :10‘872‘07;#45‘
:24 45=‘1''‘62/''45=90‘1''‘4''‘67''4@9/‘7‘ 7;5‘ 21 4'91 :
H‘ ‘ 1?#:4 .‘=2/1‘2/'6/A‘15<‘ 2; .#?0‘ 72<#07;2‘
72<'.46&''‘ .;?@9/‘15<‘7@/<4/5‘ ''/2>15 #

‘ ;

:7‘ 78‘ 129@727;=.&''‘EA7??75B'/5'/‘@;'45/''B94C/‘
9/ /2''‘ 7‘ ./‘ 1?@1''1<72‘ ./2/‘87997:‘ ./‘ <4'1' /2‘
2/8/22/<‘ 7‘45‘ ./‘842''‘4''‘ ./‘ </8/1‘78‘ ./‘1994/''‘1‘
9?15K1#@0‘ ./‘ ;C/‘78‘ /2:4AC‘ ./‘ ?/1';2/''‘
A75A/2 /<‘? .‘94/‘ ;C/‘78‘ 1>70‘:/2/‘ ./''/‘(* ./‘
A7;2''‘78‘ ‘ $1?/'&''‘15<‘ ;245#@0‘ ./42‘1=/5 '#
129@727;=.‘15<‘ ;=/5/# .1<‘1=2//<‘75‘ ./‘ '4/=/‘78‘
7;975‘ * ‘1‘ '4/=/‘192/1<0‘51?/<#45‘61''45=‘ ;=/5/‘
15<‘ ./‘ ;C/‘78‘ 1>70‘9/<‘ # ‘?/5‘7>/2‘ ./‘ 79‘
</‘ /5</#15<‘ ./‘?7'‘=19915‘78‘'.7/?1C/2&''‘75''‘ 42

b

97;A9/'9/0 .7>/9# A776/21 /<# @0 ? /15'' 78 .4'' 5=97B ; A. 89// # 74 . /' A71' ' 78 27>/5A/ 97224'' 15< 944'' 84=. 45= '14972'' A9/12/< @7 .' '4</'' 78 . /' ! 12# 15< /51@9/< . /' 872A/' 7' A27' '' 15< 7' 1<>15A/') @; ' 4 '' </910' 45' =/ 45=' 872 : 12<# 1 24@; 1@9/' 7' . /' ;C/' 78 1>70# : 1'' 1C/5' 1<>15 1=/' 78' @0' ! 49912'# : . 7' </F '61 A. /< @1 19475' 18 /2' @1 19475' 82764 . /' "9445/# 15< : . /5' 1>70' 15< ;=/5/' A1?/' 45' '4=. ' 78' 7;975# . /0' 87;5< 4 ' 4?62/=51@9/# 15< A7>/2/< @0' 1' 872 484/< A1?6' 78' 872 0' @1 1.75'

;=/5/' 2/A7??/5</< <4'A2/ 475' 15< : 4 .<21 : 19#@; ' 1>70' 45'4' /< 75' 1 /?6 45=' 15' 1''1;9 # 872' . /' A.15A/' 78' >4A 720 ' 4'' 1''1;9 ' 75' . /' .499' 78' ' 1 ./245/' : 1'' ?7?/5 12490' ';AA/''8;9# @; ' . /' 2/5A.' 2/=145/< . /' .499# 15< 45A2/1'/< . /' ' 2/5= .' 78' 7;975 ' . /' ;9A/' 78' + 6!' A75 /5 /< .4?'/98' : 4 .' @7?@12<45=' . /' A4 0# 15<# @0' /88/A 45=' 1'' ? ;A.' </' 2;A 475' 1'' 67''4@9/# 1>/5=/' .4?'/98' ?' 612 ' 872' . /' </>1' 1 475' 78' ;245# @0' . /' 2/5A. ' 5' .4'' @7?@12<?/5 ' . /' 5=94'.' 89// ' A7F 76/21 /<') 18 /2' : .4A.# 45' /6 /?@/2# . /' 45>1</2'' 2/F A27''/< . /' ! 12' 15< 2/ 42/<# ;56;2';/<# 7' . /' ?124 4?/' 96' ' H 99' . /' /125/' 5/''I' 78' . /' ;C/' 78' 1>70' A1?/' 7' 57 .45=' 1< . /' 15< 944'' A758/</21 /'' 7590' .1< . /' ?6/24194' '# >.7 : /2/' ;'/9/''' 1 ' 169/'# 15< 7' /' 1@94'.' 75/' 78' : .7'/' 6245A/'' 75' . /' .275/' 78' 6145' : /' : /2/' 67;245=' 7;' @977< 15< 2/1';2/# />/5' 1 ' 7;975' ./2/' >7;9< .1>/' @//5' 1' ?72/' '1 4'81A 720' A75F '/J;/5A/' 78' =19915 20' : .4A.' : 1'' ./2/' <4'6910/< 7590' 7' 45A;2' <4'1' /2

' . /' : 24 45=' 78' . /' '/A75< 78' . /' 87997 : 45=' : 7' 9/ /2'# 129@727;=.' .1< 2/?7>/< 827?' 75</29/A. ' ?' 21@15 # : 4 .' 3Q# ' A7?@1 15 '# 7' . /' A1?6' /' 1@F 94'./< @0' .4?' 1 ' /?@/2=

.1 ' 87997 : /< 5//< @/' @; ' '4?690' 45<4A1 /< ' . /' <;C/&'' 1<>/2'124/'# ! /5<|?/' 15< . /' 9/A 72' 78' 1>1241# : 4 .' # ' ?/5' ?72/' .15' . /' <;C/' ./9< 45' .15<a# 7AA;64/< 1' 945/# 78' : .4A.' 4=50' :+1'' 75' ./42' 24=.

h

941/'# '7 .1 . /5/0 ?12A.: /?1C/# : /?10. /1@9/ /4
7 =>4/'' : ./ ./2 ./0 </'4=5 7 ?//5'#1' ./0 =4>/
7 ;) &4'E>/20A/21?' ./0 12/>/20 ?44?/275'# @5 752
2776'12/4<9 45'7 =77< 1 A75<<<75# .1 5C : /
/125 : 4'.872 57 ?= ?72/ .15 1@1 9/# 7 <7 t 4;2 614E
7 : 12<'2/61C45= ./?4'872 55/45 6145
H 1?# : 4 . =2/1 25 .# 0752 O//99/5/0&' ?7'
7@/<4/5 15< .; ?@9/ '/2>15 #

8 8 &

27?'7;5<' 78 : 12# : / : 499 57 : 4451 7 .7'/78
'78 /2 ?;'4A# /A.7/' 78 : .4A.2/1A.;' 45 ./5/O

87;5<1=77<=7''4645=9/ /2# 947;=@B458/2472245 45 /2/'
7 ./ :7@0 :.4A.4'4" 87997:/<(*

2

* ' 8+7#$' $%$

:1" 57 1 94 9/627;<78 ./.757;4&
78 07;2 72<'.46&" 9/ /2827?! 4/551## @44 14.''7220 4
4" '7 <4884A;9 7 =/ ;7575A454 7>/2 ./2/ <75&845<#
.1 .=2/4" 94C/ 7@/150 8;2 ./2 '/6" ?1</ 74012<"
4 '7 >/?;' A7 /5 7;2'/9>/" >4.944" ?;'4A# 15<a
612 4A;912N E 975= 7 ./12V.4" 5/:7[4/21# >.4A94 ?D
72< 19481O .1" 57 0/ 2/A/4>/<B B 1?'7 0 07;2E
78<'.4D4 .1"C@//5 1 ./ 27;@9/78 '794A4 45=1 A7;2
.1 A1557 #@/ 6/2';1</<)7 6;4E ;/ 4" 7 >.45 /2/' ##
@; .76/#<419 ./=77< 627'6/A 78 188142" E0yzE >498
84D4<:./5 07;A745`7 ;245:499B ?1C/07;2 72<'.46
E1?/5<" 872 07;2<4'166745 ?/5 1 !4/551 ;2B\07'"
45 +45 <7/'B 57 B16D /12 7@/9/'" .15 ./ 2/5A.B
2/62/'/5 4')@; ?7' 6/7699/A7?872 ./?'/9>/" >4.
./.7[4/" .1 ./ ;C/78 129@726;=.15< ./ ;C/
78 1>70 :499?72/ .15?1C/ ;"1?/5<" 872 941 ?4'F
872 ;5/ .1>/'//5 1 94' 78 ./E 2/5A.912?0 444E
915</2'#:.4A.?1C/" ./?'1?6;5 7 1@7>/, #
c?/5# 15<;675 ./42 ?7475" 7 >12<" z0# 78 >.4A.
94/4&/A1?/ 15 1AA7;5 0/' /2<10# ?7 6/7699/B12/E45
G/O6/A 1475 78 1 @1 9/# &:924A.7;2 =/58/19))BNS >/20
</'427;" 78 V ./'J;//5 <7/" 57 2/?7 /'X 7E E45<'72
499# ./?4<<9/78 5/O ?75 .# .1 5= ?72/ @;'45/'"
.15 4" ;';19 1 .4" 4?/#;675 ./ 1AA7;5 68E .=
+B 547;) 1?# !4.'./=2/1 /' 2/'6/A #
H 7;2 72<'.469'E7@/<4/5 ##'/2>15 #

: F+W D J

! 15@2;=.&" 9/ /2# :.4A.85))5 6*N 4" .2//612 " 627F
8,??;50*)1J< 75/612 =7''46 .7'/ .2//612 " '/2>Y
7> A1220 75 ./ .4' 720 58 ./ .7;'/ 1 "4?@79 7;)
! 15@2;=.&" '/5'4 4>/5/'" 15< ?7</' 0 166/12B 4/2/'6 C

4‘‘ A/2 145‘ .4‘‘ 6915‘#48‘ ‘.7:5‘ 7‘ ?7</?‘ 1.15‘12A.4F /A ‘# :499‘@/‘A24 4A4‘/<#@; ‘ ./‘15 4A461 /‘‘ 150‘62/D;<4A/‘‘ .1‘ ?4=.‘@/‘A2/1 /<‘45‘ ./‘ /129&‘‘ ?45<#@0‘15‘45 /994F =4@9/‘ /O69151 475‘78‘.4‘‘ 7:5‘>4/:‘

.1‘ ./2/‘:1‘‘ </910‘45‘ ./‘627=2/‘‘‘78‘ ./‘6191A/‘ @;49<45=‘1‘ 9/5./4?‘872‘ ./‘ ;C/‘78‘ 129@727;=.‘4‘‘ ./2/‘A75842?/<‘ W;//5‘ 55/‘.1<‘1‘842‘‘@//5‘/1=/2‘ 15<‘=/5/27;‘#</‘427 ;‘‘ 7‘‘//‘ ./‘.7;‘/‘@; ‘) 15<‘.@/219‘ * 1‘‘812‘1‘‘.@/2194 0‘:7;9<‘A75‘4‘‘:4 .‘A75 24@;45=‘7‘ ./‘@;49<45=‘7;‘78‘ ./‘6;@94A‘?75/0‘ ;‘<4884A;9 4/‘‘ .1<‘124‘/5‘ $;‘‘1‘‘ 54+/‘:1‘‘1@7;‘7‘?1C/‘1‘5/4=.F @7;2‘78‘ ./‘<;A./‘‘#45‘ 199‘ 199# @0‘?1C45=‘1‘=215‘7‘ ./‘<;C/‘78‘‘;A.‘672 475‘78‘ ./‘=27;5<‘‘A755/A /<‘:4 .‘ ./‘6191A/#1‘‘.1<‘@//5‘H‘./2/ 7872/‘;‘/<‘872‘C//645=‘78‘ 6./1‘15 ‘# =;45/1B./5‘# 612 24<=/‘# 15<‘7 ./2‘ 87:9#I‘ :./2/75‘ 7‘ @;49<‘ 9(4/‘.7;‘/‘:.4A.‘4‘‘ 57:‘ ./‘ 75<75‘ .7?/‘78‘ ./‘ 245A/‘15<‘ 245A/‘‘‘78‘ 19/‘*D;‘‘1‘ .4‘‘ D;5A ;2/#‘ ./‘J;//5‘15< 94/‘<;A./‘‘‘J;122/99/<‘ ./‘ 91 /2‘.1<‘J;4 /<‘ ‘$1?/‘&‘# 9/1>45=‘./2‘1612?/5‘‘ ./2/‘45‘‘;A.‘1‘‘1 /‘78‘<49164<1 475‘15<‘/>/5‘</>1‘1F 475# .1‘ 55/‘7667‘/<‘8;2 ./2‘14<‘‘ 7:12<‘‘ /2/A 45=‘1‘ A7;5 20‘6191A/‘872‘ ./‘ :7?15‘ :.7‘.1<‘.1<E‘7‘. 9/‘ 2/‘6/A‘872‘ 55/&‘‘7:5‘2/‘4</5A/‘ .4‘‘ /O69145‘‘ ./‘ 199;‘475‘ 7‘ ./‘<4884A;9 0‘78‘627A;245=‘ ./‘5/A/‘‘120‘ 8;5<‘‘872‘/2/A 45=‘ 9/5./4?‘ 191A/‘75‘ ./‘‘67‘:./2/‘ !15@2;=.‘.1<‘87;5<‘‘61A/‘872‘4#@0‘@97:45=‘;6‘ ./‘79<‘ 7:/2‘‘78‘ 77<‘7AC

/15:.49/# !15@2;=.‘.1<‘7 ./2‘‘7;2A/‘‘78‘>/O1 475‘ H‘ 5/‘78‘.7‘/‘‘7;2‘?/5#I‘ 7‘J;7/‘ ./‘V ./5 ;?&872‘ $15;120‘ # Q3 # H:.7# 4=57215‘78‘12A.4 /A ;2/‘15< 57‘ ?;A.‘1AA7?694‘./<‘45‘ /64=21?# ;‘/<‘ 7‘91;=.‘1‘ 42‘$7.5‘ !15@2;=.&‘</‘4=5‘‘872‘A.;2A.‘72‘?15‘475# @/A1;‘/‘ ./0‘A7;9<‘ 57‘</50‘.4‘‘<1‘.# /5/2=0‘15< á‘;AA/‘‘1‘‘1‘A7?4A‘:24 /2 * 75/‘ 2‘ >15‘# 1‘8/997:‘975=‘ ‘45A/‘8@2=7 /5B * .1<‘ ./‘?194A/‘15<‘ ./‘9;AC‘ 7‘91;5A.‘ 1=145‘‘.4?‘15‘4??72 19‘A7;69/‘(

;,‘B,*67‘50‘B;9‘,*-+B‘† 5-‘B, *;1‘9*07‘*‘B,*67‘)5*1‘50‘+B,,

2 >15 : 1 1E6772 <7= V8;247; ?1<?15& : /2/ ./ >72< 45 >.4A. 210 </'A24@/< .4? 45 1 9/ /2 7 4496W9/) @; . / /64 16.# 872 6745 # 15< @4 /25/''# 15< 819'/ ';==/' 475# ?4=. . 1>/ A7?/ 827? ./ 6/5 78 76/ 76/ W;< >48 @7 . . 1 /< ! 15@2;=.# 15< @7 . 91@/99/< 15< .@/99/< .4?45 ./42 82// ?1'A;.5/ >10

5@ *O @*O+?E-*4,[@B5 0,6,- @*O+,1 @;+

4 76/E : / B2/?/?@/2/< .5/) 15< >8 91?6775/< .4?# 1 15 12A.4 /A # 45 : 7 78 .4 ?7' @4947; 67/?' ./ '?199 : 4 87997 : /< 45 ./ 21AC 78 ./ =2Y1 E75/) 15< 872 1 =/5/21 475 18 /2 ./+'624=94 90 1; .72 78 V ./ 758/</21AO& 15< V ./ 27>7C/< 48/& 77C 7 @;49<F 45= 6191A/ 15< A1' 9/'# ./ 91?6775/2'# : .7 </ /' /< .4? 872 .4 ' 1=/ ';AA/''/'#6/9 /< .4?1 1 ./1>0 <;5A/ N >15'& .5/ /O62/''/< ./ A7??75 '12A1'? 78 ./ 75<75 A788//B.7;'/' 5>0 .1< 7;A. 7 <7 >4 . .41 6/2'/A;475) 48 ./6;@94A .1< 57 91;=./< '7 ./12 490 1 ! 15@2;=.& A7?/<4/'# ./a:4 : 7;9< 627@1@90 57 .1>/ '5//2/< 1 .4 1A.4/>/?/5 45 ' 75/ ; >.7 A7;9< ' 15< ./62/ /5'475 78 1 8/997 : : .7 >1 1 75A/ ./24>19 78 75=2/>/15< 78E 2/5 S 7 ?15 4 1997 >/< ';A. .@/2 4/ : 4 . 81?/ 8 21''# 15< 72< 76645=B 75# 15< [R 4' 70</5# 15< 4AC ?9/ : /2/ 724=45 19# 6;5=/5 # =97247;'# 8; 78 @977< 15< <E/> # ./5 ./ 67/ & .7;'/1 .4 /.199# 15< />/5 9/..4?15< 1' 9/ 7 >12<# ?;' @/ >7 /< >49/ ! 15& /?6970?/5 @O ./ J;//5 1 12A.4 /A 78 9/594/4?A21K/< .4 /5/?4/ 15< </ 21A 72' >48 A75</'A/5</< 7 >24 / 78 .4?(*

5-=>;)1;0E 8* 9,1 *01 J>?+)7 -,4D50,1 + 45>-+ ;+->6;>? +B, ,4501 5 @501,- ?;04,@;?, *>+B5-? ?B5@ B*+ =,?+ 85>01*+;50? 9>?+ =,)5@ N 01 05@ +B, >);, B*? @;?,)7 +*.,O B;9 5 =, B;? *-4B;+,4+ *+),0B,;9 >+ -*;)),-7 85- 504, *C*-+ 8 +B;? ->), B5)1? ;O ,6,-7 *-+ N - ;8 B;? -*4, @,-, 05 95-, ?D;)),1 ;O B, *-+ 58 =*++,-;0E @*))? +B*O =>;)1;0E , 9 ;EB+ ,PC,4+ +5 ?,, 0,P+ 7,*- 9 5>?,<+-*C 9 *O 4B;,8 ,0E;0,,-

U

99 .4 '64 / 15< 24<4A;9/ .1 975= '45A/ 61''/< 1:10 42 $7.5 !15@k;=.&" ?/24 " 1" 15 12A.4 /A * 944" 842/# .4" <1245=# .4" 64A ;2/'J44/5/''# .4" '7.<4 0 15< =215</;2 * .1>/ @//5 2/A7=54'/< 15< >/20 .15<'7?/90 1AC57:9/<=/< @0 ./ @/' D;<=/" 78 12 £ 42 $7'.;1 /0579<'&" D;<=?/5 78 .4?# .7;=. 78 /5 J;7 /<# ?10 @/ J;7 /< 75A/ 1=145) * V 5 ./ @;49<45=" 78 !15@2;=.# :.7 :1" 1 67/ 1" :/99 1" 15 12A.4 /A # ./2/ 4" 1 =2/1 /2 <4'6910 78 4?1=451 475 .15 :/ '.199 845< 6/2F .16" 45 150 7 ./2) 15< .4" 4" ./ =27;5< 78 ./ /88/A : /8//9 45 ?150 78 .4" :72+# 57 :4 .' 15<45= ./ 81;9 " :4 . :.4A. ?150 78 ./?12/ A.12=/< & :1" ./ 6/A;.124 0 78 !15@2;=.&" =/54;" .1 . / :1" 1 67/ />/5 ?72/ .15 1 @;49</2# 15< </'4=5/< 1 6191A/ 1" ./ </'4=5/< 1 6910 * +45 ?1''/'# :4 . '7 ?;A. ;54 0 78 .7;=. 45 ./ ' 75/o A75' 2;A 475 1" ./ :7;9< .1>/ ';<4/< 45 .4" 1A 475 15< <4197=;/# ./ :.79/2/./>/< 15< /594>/5/< @0 12 4' 4A A75 21' " 15< ';2624'/' 7 ?15# 627@1@90# 57 1 '91>/ 78 2;9/'#E:499 </50 7 9/5./4?15< 7 1'9/ 7:12< 1 A/2 145 '69/5<7?a 15< 724=45194 0 57 7 @/ '//5 ? ./ :72C" 78 A7??75 ?/5 //5 827?./ @24<=/# 72 827?./ =21''0;6915< 1@7>/ ./ @24<=/# :.1 ''/A;912 /<484A/ ? 5=915< :499 A7?612/ 45 872A/# '794<4 0 15< A.//245/''# :4 . ./ 8275 78 9/5./4? S " 4 57 :75</28;990 @24=.# 15< @79<# 15< >1247;'# ' 24C45= 45 ./ </ 149 15< 45 ./ ?1''S 7/" 4 57 =97247;'90 A16 15< 1<725 ./ >79;6;7;" '4 / 75 :.4A. 4 ' 15<" S C 7/" 57 ./ :72C# 77# .727;=.90 /?@7<0 ./ 4</1 7; 78 :.4A. 4 =2/ : * ./ ?/?7241 78 1 51 475&" =21 4 ;</ 15< 1 ./27&" </<" S ./ 6915" 872 9/5./4? <4E/ : ./ /0/" 78 ./ :729< 7 !15@2;=.# 55/ 1<?42/< ./?' 7 ?;A. .1 '. / .1< ./?' 691A/< 45 ./2 6191A/ 1 " /5'45= 75# :./2/ '. / A7;9< 8/1' ./2 /0/" ;675 ./?' <1490 99 ./ 7;2 1<?42/< ./?' 15< ./42 1;.72(15< ./ :4# ./ '79<4/2# ./ 76/21 ?151=/2# 15< ./ A7?4A :24 /2 '6215=45 7 15 7884A419 67'4 4 5BD+ ./12A.4 /A 78 5=915<#

. /' 1991<47# . /' 4A.1/9 5=/97 78 . /' /' ' .49/'
. /' : 72C'' 1 ' 77<' 7AC : /2/' 45 627=2/' '# 612 ' 78(. /' 2`
79<' 1' 9/' 1 ' 1?@79 744 8/99 <7 : 5 827?' 1=/)' 15<'
! 15@2;=.#E 1'' : 1'' 94C/90 827?' . /' J;//5&'' 627 /A 475 78
.4?# =7 ' 827?' . /' 7;5 /' '' 78 15A./' /2# 45 . /2E
.;'@15<&'' 1@'/5A/' 827?' .7?/# 1' A7??4''475 7' 2/6142
15<' 2/@;49<' . /' =14O9/5 848?5 ' '' . /' /129 : 1'' 45
! /54A/# 75 . 1 ' <4697?1 4A' ?4''475 : . 4A.'=1>/' 5=915<'
15 1990 45 . /' 7=/' 15<' 7;2 872 ;51 /' 1?@1''1<72 . /'
.4=./' 'E94757;2'' 78 . /' 5=94'.' //21=/# . /' 188142 : 1''
12215=/<' @0' 9/ /2' ' . /'/' / /2'' 12/' 45' ! 15@2;=.&''
@/' ' ' 09/ * +9/ /2'' 78 @;'45/' '' 15<' =7''46# 45' : . 4A.' : /'
'//' . /' >/20 872?' 15<' 1'6/A ' 78 . /' 4?/' ' . /' 842' '
57 /' 6245 /<' @/97 :' '.7 : '# 1?75=' 7 ./2 .45='# . 1 '
. /' 8199 78 612 ' 78 . /' @;49<45=' .1<' 57 ' 45D;2/<' . /'
/<277? * W;//5' "1 ./245/&'' 277?' * . /' A.1?@/2 45'
: .4A.' '. /'<4/< * 15<' . /' A/5 2/# 4 ' ?10 @/' 1<</<# 78 199
. 1 ' 4'' ?7' ' /5</2 15<' 27?15 4A' 45' . /' /<484A/' 1'' 4 '
57 :' ' 15<'

' ' ' ' '

* ' A>)7' ' $%$

B' ' * 8' ' .1<' .1<' ?0' 1<0&'' 9/1>/# ' .1<'
'775/2 : 24 /5' 7'07;2' 72<'.46'1@7;' '' 4?@79 75' . /'
.1'' =4>/5' 07;' 15' 1AA7;5 ' @0' : .1 ' ?/15'' . /' : .79/'
=12</5' 8275 ' .1'' A7?/' <7 : 5)' 15<' . /' <4<' ?/' . /'
.757;2' L : ./5' '. /''1 :' 4 ' ?;' ' <7' '7M 7' 1'C' ?0' 1<>4A/'
45' A12204 5='4 ';6' 1=145 ' 'A7;9<' 57 ' =7' <7 : 5'D;' ' . /5'
@;' <4<' '775' 18 /2# 15<' =7 ' 2' 1 : C45'75' <7 : 5' : 4 .'
?/# : ./5# .1>45=' A75'4</2/<' />/20 .45=# : /' 199 1=2//<'
;675' ./' 45A97'/<' </'4=5# : . 4A.' <488/2'' >/20' ?;A.' 827?'
: .1 ' 79/?15' .1a<' <21 : 5# 15<' 612 4A;91290' ?' .1 ' ./'
.1<' 57 ' @27;=. ' ./' <772' 78 ./' .7;'/' 45 7' ./' ?4<<9/'
78 ./' 8275 (?150' 7 ./2' =2/1 ' /OA/6 475'' ./2/' : /2/' 7'
4 # @7 .' : 4 .45' 15<' : 4 .7;# ./' A.4/8 78 : .4A.' 12/' 45'
.4'' </'4=5' </A4</<' 7;2' 72<'.46' : 499 ./2/' '//' '7?/F
.45=' .1 ' <488/2'' 45' ./' 91' ' 78 ./' 277?'# 827?' ./

A7? ? 75 ? 7</) : . 4A . 4'# 7 =7 4? ? /<41 /90 7 ; 78 . /
<21 : 45=B277 ? 45 7 . / @/<BA . 1 ? @/2 ; . /<21 : 45=F
277 ? . /2/# 819945= 45 . / @/=45545= 78 . /945/# . 1< . /
@/<BA . 1 ? @/2 @//5 5/O # . /2/ A7 ; 9< . 1>/ @//5 57
2/= ; 912 72 6276/2 : 10 7 ; 78 . 4'8275 45 7 . / =12</5#
: . 4A . : 7 ; 9< . 1>/ @//5 15 4 ? 612<751@9/ : 15 . /2/
: 1'# . /2/872/# 1 5/A/''4 0 872 '7 ? / 5/ : A75 24>15A/#
15< . 7 ; = . . /2/A7 ; 9< 57 . 45= 45 2/1'75 @/ 7@D/A /<
7 @/45= ' ; 6694/< : 4 . 1 912=/ 57@9/ 277 ? 78 6121</
@/ : //5 . / <21 : 45=B277 ? 15< . / @/<BA . 1 ? @/2#
/'6/A41990 '45A/ 4 8199'' '7 24= . 7 . / =12</5 . 1 . /
<772 4'' 45 . / ? 4<<9/ : 19C 15< A1519 72 ? 0 612 # A1557 @ ; . 76/
4 : 499 627>/ 15 1=2//1@9/ L . 7 ; = . ; 5 ; ' ; 19M 1AA4</5 45
. / 1612 ? /5) 15< . 4'' 1? ' ; 2/# . 1 A75'4</2 . /E
277 ? 45 4 '/98# 15< 4 : 499 @/ @/075< 199 A75 /' . /
? 7' 69/1'15 45 . / . 7 ; '/ '' 7 . / 7 ; '4</# .
. 7 ; = . 4 : 1'' 1@'79 ; /90 @/' 7 =4>/ 4 '7 ? / . 45= 78
. / A1' 9/ 142# . 7 ; = . 1 . / '1 ? / 4 ? / 7 ? 1C/ 4
2/= ; 912# 15< @0 944'' ? /15'# 77# 199 . / 79< ' 75/ 4''
'/2>4A/1@9/ 1=145# : . 4A . # 7 . 1>/ . 1< 5/ : # : 7 ; 9< . 1>/
2 ; 5 7 1'>/20 =2/1 /O6/5'/ . 4'' ? / . 7< : 1'' 621A 4'/<
1 45<'72 45 " 45= . 129/'&'' 4? /# 15< . 1'' @//5
; 54>/2'1990 16627>/< 7 . 76/ 07 ; 2 72<' . 46 : 499 57
@/ <4'A7 ; 21=/< 48 150 19415 07 ; ? 10 ' . 7 : 4 7# ' . 7 ; 9<
845< 81 ; 9 . 1 4 4'' 57 7 ? 15) 872 7 . 1>/ @ ; 49 1'8275
: 4 . 6491' /2'' 15< : . 1 . / 72</2'' 2/J ; 42/# A7 ; 9< 5/>/2
. 1>/ @//5 <75/ : 4 . / 2/' 78 . / A1' 9/ 1 ? ' ; 2/
. 4'' : 499 ? 1C/ 1 >/40 57@9/ 845< ? 1'A ; 945/ ' . 7 : # 15< 4
4'' 78 1'' : 12215 1@9/ 1 C45< 78 @ ; 49<45= 1'' 150 / . /2/ 4''H7 ? ; A . ? 75/0 2/J ; 42/< 872 6 ; @94A =77< . 4''
0/12# . 1 ? 0 72< 2/1' ; 2/2 A15& 18872< ; '' 1 9/5 . /4? .
198 : . 1 : / : 15 (. 7 : />/2# . /2/ : 499 1 =2/1 </19 @/
<75/) 15< : 7 ' ; ? ? /2'' ? 72/ : 9 8454' . 4 0 1<0
; A . /'' : 1'' . /2/ 91 /90# 15< 2/ ; 25/< 7 45<'72 '7
/5 42/90 69/1'/<# . 1 ' . / 79< ? /# ' . / ' . 7 ; 9< 94>/ 7
. 1>/ 7 @/= ? 0 612<75 872 />/2 . 1>45= J ; 122/99/< : 4 .

57 : ‘ .1>/‘ 15‘ ?6/272‘ 78‘ /2?150‘ A7?67'45=EA15 1 1'‘ : .49/‘ ;276/‘ : 1'‘ A75>;9'/< : 4 .‘ 6794 4A19‘ 1=4 1 475' ‘ $7'/6.‘ #.7 : />/2# 2/1990‘ 97>/<.12?7547;'' 2145'# 15< : 1'‘1‘?15‘ 78‘';A.‘=77<'/5'/‘75‘75/‘6745 #.1 ‘ ./‘ : 7;9< 57 ‘6/2?4 ‘ .4'‘67/ 'B91;2/1 /‘ 7‘ 6214'/‘ .4?‘45‘ ./42‘7</' ‘ H‘ ‘94C/‘ 7‘ ./12‘ =77< ?;'4A#I‘ ./‘ ;'/< 7‘ '10# H15< ‘ ; /290‘1@.72‘ 199‘ 491 /20‘15< />/5‘199‘ 6214'/‘ℕI‘ /‘ : 1'‘ ./‘ '75‘ 78‘ .1 ‘ 94 9/# =977?0‘ /7679< : .7?‘ /2?15‘ ./219<'‘A199/<H‘ ./‘ 2/1 #I‘15< : .7‘ .1<57 ‘ ./‘=21A/‘ 7‘ .15C‘ 7@4/'C4‘872‘'1>45=‘ ! 4/551‘872‘.4?#827?‘ ./‘ ;2C' ‘ $7'/6.‘ : 1'‘ 94@/21990‘ /<;A1 /<# 15< 18872</< '7?/‘ 79/21 475‘ 7‘ 27 /' 15 '# 15< .1< 2/1'75‘ 7‘ .15C‘ 129@727;=.‘ 872‘ 1'‘ =2/1 ‘ 1‘ '/2>4A/‘ 1'‘ 7@4/'9< .1< 2/5</2/< 7‘.4'‘81 ./2 * ./‘'19>1 475‘78‘.4'‘/?642/‘ ./‘ $/';4 '‘ .7;=.‘4‘.1< @//5‘1'‘ :/ ‘</' 270/< 1'‘'1>/< @0‘ 1‘ ./2/ 4A)‘ 15< ./‘ </1 .‘ 78‘ $7'/6.‘ @0‘ '?1 B67O# 87;2‘0/12'‘18 /2‘ .4'‘9/ /2‘ :1'‘ :24 /5# :1'‘.9<@0‘ ./?‘ 7‘@/‘6277878‘.4'‘ ?1D/' 0‘.1>45=‘A7?? 4 /< 1‘A24?/‘45‘ 1AA/6 45=‘';6672‘827?‘ 15‘;572 .7<70‘ '7;2A/‘ℕ 7 :‘ ./‘ 6772‘ /?6/272‘A7;9< .1>/‘';2>4>/<?4=.‘ 57 :‘@/‘ /O69145/<‘ 4'‘<7A 72'‘'.;‘.4?‘;6‘45‘1‘277?# :4 .‘1‘ @91K45=‘842/# A7>/2/<.4?‘:4 .‘@915C/ '# ' : 1 ./<.4?‘45‘ 'A129/‘A97 .# =1>/‘.4?‘' 275=‘'64A/<<245C' * 15<62/F /5</<7‘ : 75</2‘ .1‘./‘<4/<

./‘51?/‘78‘ ;7575A454‘4'‘627@1@90‘57‘9/''‘81?4941 2‘ 7‘7;2‘ 2/1</2'‘ .15‘ .1‘78‘ ./‘ ?6/272‘ $7'/6.‘ ./‘76/21‘199;</< 7‘ : 1'‘57‘ <7;@‘V 1?4991#& :.4A.# 612 90‘1<16 /< 7‘ 5=94'.‘ :72<'# @0‘ 10?# '/‘ .198‘ 5=915<?1< :4 .‘</94=.# /'6/A41990‘1‘ 2'‘ 78 '‘ : .7‘ C499/<1‘ : 49< @712‘45‘4 # 7‘ @/1; 48;9‘ ?;'4A# 1AA;21 /‘ 4?/# 15L$ /O62/''4>/‘ 5=94'.‘:72<'# 7‘ : .4A.‘ ! 19/5 454‘ 15' : /2/< 1?727;'90‘45‘>/20‘A.74A/‘ 19415‘ ‘ : 1'‘ ./‘ '/A75< 76/21‘45‘ ./‘ 19415‘' 09/‘627<;A/<45‘ 5=915< L , ,M# ./‘0/12‘45‘ : .4A.‘ 15</9‘ 1224>/<15<914< ./‘ 87;5<1 475'‘78‘ .1‘24>1920‘ : .4A.‘9/< : 48‘ 7‘ /O62/''‘ .4'‘1' 754'.?/5‘ .1‘ ';A.‘<488/2/5A/‘ ./2/‘ '.7;9<@/‘ & : 4O‘ : //<9/B<;45‘15<‘ : //<9/B<//‘N

5 94/ 5/O 9/ /2# : ./5 '6/1C45= 78 ./ 5/ : /64'A761 12215=/?/5 '# 72< 1.81O 4" 57 19 7=/ ./2 A722/A 88'6245= 91AC.199 ';AA//</< 42 $7.5 2/91:5/O 1" 4'.76 78 O/ /2# 45 $15;140 , QN /:1" 1 740# 15< 1 '4?69/# 1@9/# 647;" ?15) 1 69145 62/1A./2# 15<# 1" 1 R>4& /2# 57 45/884A4/5 45 A75 27>/2'O :4 . 7915< 72 71<9/O

H 1:/" :499 57 @/ 4'.76 78 ./' /2 I :1" 1 819'/ 6276./AO . /94 9/ ?15# :.7 .7;=. 57 .45= 78 944?'/98 1" 1 @1275/ # @;>/20 ?;A. 78 .4" B7884A/ * 78 1 624/' # .1< 75A/ @/872/'97' 1 @4'.7624A @O 62/1A.F 45= ' 2/5;7;'9O 1=145' W;//5 55/&" ?454' 20# 45 1 . 78 $15;120 '/2?75 H 7;.1>/'97' 1 '//@O 1 '/2?75# I '14< 1 :729<90 824/5<& H 5/>/2 .7;=. 78 =/ 45= 75/ @O 62/1A9445=# I 15' :/2/< <7;=. O 1:/' ;.1 55/ :7;9< 57 <7 872 ./2 <7;=. O .7572120 A.169145 5 , -# :./5 1C/ :1" 215'91 /< 827?' 45A795 7 15 /2@4;O# './ <4< :49945=90 45 /@2;120 , Q# @O 51?45= 1:/" 1" ./ ';AA/''72 7 4A.791" 21 872< / :1" ';@'/J;/5 9O 215'91 /< 7 72C# :4 .7; </'44&5= 4 ') @; 1:/" 77C 1 .45=" 2/'4=5/<90# />/5 ./ 'A79<45= 78 .4" :48/# 2/94/>/< 827?' :.7?' @O ./2 </1 .# ./ A19?9O 2/?12C/<# H 120 57:' 4") > (("I * H O/#I 7@'/2>/<1 '90 824/5<# H @;'57 499 './ .1< @//5)) " - 24?5/99 ';AA//</< $7.5 772/ 45 72:4A.# 15< :1" ';@'/J;/5 9O 215'F 8/22/< 7 45A./'/2 /4" /?6.1 4A199O '67C/5 78 1" H .1 =2/1 2/1</2 78 .1C'6/12/ I

F A;;)7 $%$

* 7:07;2 72<'.46 4" =7 7 ! /54A/# 75/ ?10 .76/ 1 9/ /2 ?10 845< 07;1 '7?/ =2/1 /2 A/2 145 O .15 :.49/ 07;:1" ;675 ./ 271< 15< '.48 45= 691A/" />/20 ://C 2/ ;25 07;2 72<'.46 1 .7;'15< .15C" 872 ./ '75=" 15< ./ 845/ 76/21 :.4A. 07;.1>/ '/5 ?/ ./ A15 1 1 78 ./ ?6/272&" 7:5

A/4>/ .725) @; A15& 845< ./0 .1>/ ?1</ ?;A. 78 ./D7;25/0 .1 />/2 /2215< ./0 :/5 ;675# .4" 4" ./ 62/'/5 ' 1 /78 .1 189142# :.4A. .1>/ @//5 94/ ?72/ 612 4A;912 45# @/A1;'/ 074;& 72<'.46 '//?/< </'427;" 7 .1>/ 15 1AA7;5 78 4 0 1<0 15F A./' /2 :1" ./2/ 1 8/:<10" '.4A/# 15< <4< ?/ ./ .757;2 7 <45/ :4 .?/ 1?/OA//<45= =91< 7 ./12 72< 15</>499/4" '7 :/99 2/A7>/2/< 78 .4" 91 /45<4'F 67'4 475# :.4A. 6; ;" 199 45 '7?/ A75A/25 499 4 :1" 7>/2 74E< 194810 4" @/ ://5 .4" 691A/15< 1?6 75 7;2 # 15< @/94/>/ :499 57 ' 42 8;2 ./2 827?/ 75<75 .4" ';??/2 99 7;2 .7;=. " 12/ /?6970/< :4 . :.1 4" <745= 45 07;2 612 ' 8 7;975 .166/5" 7 @/ 19A/5# 4 :499 ?1C/ '7?/ 1?/5<" 872 7;2 97' " 45 6145 1?/ 18214< 07;2 72<'.46 '6/1C" 77 ?;A. 2; .:./5 07;' '10 :/ .1>/ E57 @//5 24=. 90 45872?/< .7:7;2 144142" =7 ./2/) 07;'&99 A75 24@; / 7:12<" '/ 45= ;" 24=. ;2 @4'.7624AC" 12/ 57 0/ <4'67'/< 78# 15< :/ 12/ 45 6145 9/' ./0 '.7;9< 57 @/ =4>/5 1" :/ </'42/ 74;E 72<'.46 '//'# 57 :E 1?= 7 45 7 :24 45= 7 07;# C57 : 57 :./5 7 .1>/ <75/) @; .616/2 :499 1997 :?/ 7 1<< 57 .45= ?72/# @; .1 1?/ 07;2 72<'.46&" >/20 .;?@9/ '/2>15 # H

27?= /5/219 188142" :/ ;25 7 .7'/ 78 15 45<4>4F <;19 * 45 ./ ';AA//<45= A.16 /2

1=;' 75' .4'' /?@1''0' 7' 215A/# 45' 33 ' ' :1'' 75' .1 ' 7AA1'475' .1 #@/45=' 45' ./' 2/5A.' 6/21' 7;'/#./' :1'' '7' 2;</90' 2/1 /<' @0' '7?/' 2/5A.' 7884A/2'# .1 ' ./' '/9/A /<' ./' 2;</' # '7;5<90' '?1AC/<' .4'' 81A/# 15<' <21:45=E' .4'' ':72<# @1</' ./' 7 ./2' </8/5<' .4?'/98 ' ;' 57 ' 7590 D94<' ./' 7884A/2' <7' '7# 199' .4'' 824/5<'' <2/:' :4 .' .4?# 15<' ./' 5=94'.?15' .1<' 7' C//6' .4'' .8/' 1=145' ' ./' 1''1;9 '' 78' .198' 1' <7K/5'8;247;'' ?/5 ' .4'# .7:/>/2# ./' <4<'@21>/90# A19?90# ' /2590# 15<'/88/A 4>/90') @;' 57 #:4 .7;' 2/A/4>45=' ?150' :7;5<'' 15<' 97'45=' ?;A.'@977<# @;' ./2/:4 .' ./' 81?/' 78' .4'' </'/<' :1'' '62/1<' 7>/2' ;276/# 15<' .4'' \1?Y' :1'' />/20:./2/' 2/6/1 /<' :4 .' /5 .;'41'?

/' :1'' J;4 /' 1'' @79<# 8/129/''# B445<' .75/'' 45' .4'' 6794 4A19' A18//2' 1 ' .7?/' /' :1'' 1' 61 247 ' :./5' 61 247 4'?' :1'' <15=/27;'' 7' .4?' :.7' 6278/''/<' 72' 621A 4'/<' 4 ') 15<' ./' </8/5</<' ./' 24=. '' 78' ./' 6/769/' 15<' ./' 67:/2' 78' 612941?/5 # :4 .7;' :4'9445=' 7' 458245=/' ./' 62/27=1 4>/' 78' ./' C45=# ;59/''' 45' A1'/'' :./2/' 4 ' :1''1@;'/<' 7' ';A.'1'?15# ./' ./274A' ;'''/99' :1'' 19?7'' 15' 4<79' :.7?' ./' ?4=. ' :72'.46 ' ./2/' :1'' 57' 62/ /5A/' 45' .4'' 62787;5<' 2/=12<' A1224/<' 5/1290' 7' 1<721 475# 872' :./5' ;+/ ' 910' 1' 624'75/2' 45' /O6/AF 1 475' 78' </1 .# />75'.42/' 788/2/<' 7' A.15=/' A97 ./'' :4 .'.4?# 15<' 7'2/?145'45' .4'' 691A/' 45' 624'75# 1AA/6 45=' 1 ' A75'/J;/5A/'# :9449/' ;''/99' ?1</' .4'' /'A16/' ./' 27?15 4A' 788/2' :1'' </A945/<# 15<' :4'/90# 872' 4 '' A75'/F J;/5A/'' ?4=. ' .1>/' 4?6/2499/<' :7' =77<' 15<' =2/1 ' ?/5' 45' /1<' 78' 75/

.4'' />4</5A/' 78' .4'' '/5 4?/5 '' 15<' ./' 81A ' 78' .4'' :12?90' ';6672 45=' ./' OA9;'475' 499# :.4A.' :74<<' .1>/' </624>/<' $1?/'' 78' .4'' 24=. ' 78' ';AA/''475' 7' ./' A27E4>5# ?1</' ./' 91 /2' 1' @4 /2' /5/?0' 78' ./' ./5' 129' 78' />75'.42/# 15<' /1=/2' 7' 1C/' >/5=/15A/' 75' .4?' 5' 76672 ;54 0' '775' 788/2/<' 7975/9' ;96/66/2# 75' :.1 ' =27;5<' 4'' 57 ' 67'4 4>/90' C57:5# 61''/<' '7?/' 45';9 ' 75' ./' /129# :4 955' ./E>/2=/' 78' ./' A7;2 # 15<' '775' 18 /2

78 49941?# 7 : .7? .4'# ./ 842' 15<=2/1 /' 78 ./ ;C/' 78 />75'.42/# 788/2/< 57 '/2>49/).7?1=/#@; :4 . : .7? ./ 77C 15 .75/' 15< ./12 0 82//<7? .4' :1' 612 4A;91290 ?1548/' 45 .4' 2/?75' 215A/' :4 . ./ C45= 75 2/94=47;' 6794 4A' 8 ./ <;C/ .1< 87;5<$1?/' 77 764'.# ./87;5< h.1? 67 /OA9;'4>/90 27 /' 15 # 15< ./ 2/?45</< ./ 91 /2 '7>/2/4=5# 75+ 75/ 7AA1'475# .1 . /# ./ 245A/ 78 # 215=/#.1<A7?/ 7>/2 7 5=915< 7 </8/5< ./ 27B # /' 15 ' 15< 57 7 6/2'/A; / ./ 164' ' ./ <;C/&' 09/ 78 94>45= :1' 18 /2 ./ 6278;'/ 15< =72=/7;' 81'.475 78 ?;A. /1294/2 <10' 8 /2 ./ 8/;<19 6/247<# ./ 94>/< .C/ 1 8/;<19 972<# :4 . 'A12A/90 9/' ' .15 .1 972<&' 624</# @; :4 . ?72/ .15 .4' ?1=5484A/5A/ . /81?7;' A75=2/' ' ./9< 45 79915<# 45 ./0/12 3 # :./2/'24A.90 <2/' '/< '.126/2' /9@7:/< 1' A7' 90 1 42/< 6245A/' 15< </6;4/'# 15< :./2/ 8/: =7 '7 <2;5C 1' ./ /2?15 9/=1 /'# 15< 575/ :/2/ '7 '7@/2 1' ./ ;A. ?/?@/2'# ./' 1 /'./9< @0 ./# ./5# 129 78 />75'.42/# :.7 :1' 45 1 /5<15A/ 75 ./ C45=# /J;199/< .1 78 1 ?7512A.# 15< /OA4 /< 1<?4F 21 475# A24 4A4'?# 15< /5>0 ./5# ./ :1' 1' @21>/ 78 ./12 1' ./ :1' '69/5<4< 45 .4' 1' /' * +@21>/ 1' ./ '7>/2/4=5 :1'# 7 :.7?./ 8;98499/< ./ 7884A/ 78 ' /:12< 78 .4' .7;'/.79< ./ :7 :/2/ 7=/ ./2 45 ./. 9/ '.19976 :.4A. @72/ '/'12 15< .4' 872 ;5/'# 45 .1 81?7;' ' 72?' 788 ./ ;A. A71' # :.4A. .2/1 /5/< 7 </' 270 @7 . 1''12 15< .4' ' /:12<# @; 45 62/'/5A/ 78 :.4A.a@7 . '1 # ;.1:/<# :4 . ./A.//28;9 215J;4994 0 78 2;/A7;21=/ 1;=. 0 15< 4424 1@9/# 944' 45<4'A2// '12A1'?' 75 ./A75<;A 78 49941?&' =7>/25?/5 7AA1F '4751990 /O67'/< .4?' 7 A/5'?E/# 15< />/5 7 6/249) @; ./ C45= .1< 8;99 A7584</5A/ 45 .4' 97019 0# 15< .4' A7584</5A/ :1' 5/>/2 1@;'/< . /A75'/A21 475 78 h97 '75 7 ./12A.@4'.7624A 78 15 /2@;20 * 7 1 /5< :.4A.# W;//5 120&' <21:45=B277?' :1' </'/2 /< * . /2/ :1' 57 ?72/ 627?45/5 84=;2/ .15 />75'.42/#

!"

757;2/< ?7 ./2 78 .4'' A.49<2/5) @; 4 '//?'' 7 .1>/ .1' /5/< .4'' 7:5 /5<# 15< 7 .1>/ 188/A /<# 45 '7?/ </=2//+# .4'' '/5'/' * +872 .4'' 21A/ '1: 4'' 1?6475 @;4&/< 45 .4'' 7:5 81?490 >1;9 # 1 1 4?/2'# ;AC45=F .1?'.42/) 15< ./2/ ./ 214'/< 1 ?75;?/5 7 ./2 ?/?720# 15< 691A/< 1@7>/ 4 15 45'A246 475 :.4A. 627@1@90 6;KK9/< ./ A7;5 20 =/5 9/?/5 * 872 45 7;=. 1 45 4 /;97=4K/< ./2 /OA//<45= :4'<7?# ./2 ;5'/984'. 15< 19?7' /OA/''4>/ A.124 0# 15< ./ ?7</' 0 15< 6;24 0 :.4A.''./ /O.4@4 /< :./5 1?75=' 1=/B6910/2' * :.4A.'./ .12<90 62/'/2>/<# 4 4'' 7 @/ 8/12/<# :./5 G'./ @/A1?/ A755/A /< :4 . ./ 6//21=/) 872 ./ 79< <;C/ '6/1C'' 78 ./ 07;5=' '9//6/2 45 .1 7?@ 78 ./ 1>/5<4'./'# 1'' 75/ 7>/2 :.7'/ H @/97>/</2/?145'' I ./ .1< 8/9 @7;5< 7 214'/ 1 ?75;?/5 '1A2/< 7 ./2 ?/?720

./ <;C/&'' :48/ ';2>4>/< .4? 941 />/2 './ ?10 .1>/ .7;=. 78 ./ 8;5/219 .757;2'' 614< 7 ./ @/1; 48;9 >7A1.'# :.7?' 1 ./A 4A 8/>/2 A1224/< 788 1 ./ 1=/ 78 /4=. //5# A1557 57:'@/ A75D/A ;2/< /2F .16'' ';A.' 1 24@; / 188/A /< ./2 @; '.=. 90# 872 './ :1'' ./ <1;=. /2 78 1'?15 :.7'/ 7:5 84</. 0 7 :7?15 :1''57 '2/?12C1@9/ ./ :1'' ./ <1;=. /2 78 ./ ;C/ 78 2?75<# :.7 :1'' 814 .9/''' />/5 7 ./ 91<0 ./ :1'' :7745=' 7 @/A7?/ .4'' :48/ .1 91<0 :1'' ./ <1;=. /2 78 ./ 129 78 /'?75< ./ .1< 1 @7'7?' 824/5< 45 1<0 '1@/991 4A.# 15< './ @/A1?/ ./ @7'7?' 8424/5< 77 78 .1 91<0&'' 97>/2 ./ A75''/J;/5A/'' 45<;A/< ./2 7 :4 .<21:' 7 215A/# ./ <1;=94 /2 78 ./ /'?75< C57:45=' 57 :./2/872/ ./ 824/5<'.46 :.4A.'/O4' /< @/ ://5 ./ :7 91<4/'# :.4A.'.1'' @//5 192/1<0 2/8/22/< 7# :1'' 5/>/2 @27C/5) @; 78 .1 :/ '.199 .1>/ @/ /2 1'';215A/# :./5 ./ 9/ /2'' 2/8/2245=' 7 H 772 /99/# I 15< 2/A/5 90 <4'A7>/2/< * '7 4 4'' 2/672 /< * 1 '' 49F C/550# '.199 @/ 6;@94'./<

.1 87997 : /< ? /24 '' 1 /5 475 . /. 7; /' </'42/< 7 C57 : : . 1 . 1< 61'' /< @/872/ . /' J; //5 45' A7; 5A49# : . /5 . /' ? /1'; 2/'' 78 19 : 10# 021 : 9/0# 15< 15.76/' : /2/' 16627>/<# 15< . /' 62767'19 78 72< / /2@727; = . ' A/5'; 2/< ' . /' ? / ? @/2'' 62/'' /5 ' 1 ' . /' A7; 5A49 : /2/# 1AA72<45=90# 2/94/>/< @0 ./+ J; //5 827?' . /42 71 . ' 78 '/A2/A0# 15< 129@727; = . # 7<796.45# ; 5</2915<# 15< 7 : 6/2 1AC57 : 9/<=/< . 1 ' . /0 . 1<'' ; 6672 /< 15 788/5F '4>/' : 12 1'' 1 ? /1'; 2/'94C/90 7 @/' . /' ? 7'' /88/A 4>/' 15< . /' 9/1'' A7' 90 ' 5 : . 4A . # . /' . 7; '/' 2/'79>/< . 1 ' . /2/@0 . /' @1 9/' 78 9? 15K1 : 1'' 97'' 15< . /' </'4=5 ; 675 7; 975 . 1< ? 4'A1224/<

/>/2@/872/' . 1< 1 24>0 7; 5A49 @//5''7 J; /' 475/<# 72 1 2/'79; 475 ? 1</' @0 4 ' 45 . /' 27019 62/'' /5A/' @//5 . ; '' A/5'; 2/< ' ; A. ' 2/'79; 475'' . 1< @//5 . /2/ 7872/' . /9< 7 @/' . /' 1A ' 78 . /' ? 7512A . # 18 /2 . /1245= . /' 7645475'' 78 . 4'' 1<>4'/2'# 15< 4 ' . 1< @//5 19 : 10'' 2/1 /< : 4 . ' '49/5 ' 2/'6/A ' . /' J; //5# 7 '1A2484A/' . /2 79< ? 454' 20# 15< /O67'/' . /? ' 7 2/6271A . # 45D; 2/< . /2 62/27=1 4>/# 15< @0 . 4'' 62/A/</5 ' ? 1</' 1 2/'79; 475 45 A7; 5A49 1 84 ' '; @D/A ' 872 612941 ? /5 120 /5J; 420

; ;; ' >E>?+#!' $%$

' ' * + 7; 2 OA/99/5A0 : 4 ' @/' '; 2624'/< 7 . /12 . 1 ' 72< / /2@727& . 1'' @//5 45 75<75 1 : //C# 15< 57 ' 0/ ' : 14 /<; 675 . /2 1D/' 0# @; ' ? ; A. ' ? 72/' '7 . 1 ' . /' '. 7; 9< ' 46; 91 /' 872 A75<4 475'' 15< </A912/' . 1 ' . /' : 499 57 ' 1AJ; 4 ' . 4 ? '/98 78 . 1 ' <; 0 4 ' . /' . 1'' 1''; 215A/'' . /' : 499 @/' : /99 2/A/4>/<# ' @/94/>/' 45<//< 57 : ' . /' : 7; 9< 57 ' @/' 2/A/4>/< 48 . /' 1 /? 6 /< 4 # 872 72</2'' . 1>/' @//5 '/5 ' 7 . 4 ?' 7 62/612/' 1 2/91 475 45 : 24 45= 78 : . 1 ' . /' . 1'' <75/' 1@271< 45 /O/A; 475 78 . 4'' A7 ? ?4''475# 6; 2'; 15 ' 7 1 A91; '/' 45 . 4''842' ' 15< =/5/219 45' 2; A 475'' : . /2/@0 . /' 4'' 7@94=/< 1 ' . 4'' 2/ ; 25 7 =4>/' . /' '7>/2/4=5 15 /O1A ' 1AA7; 5 ' 78 . 4'' 5/=7 41 475'' 15< 215'1A 475' ' 5/' 2 ' A7 # : . 7 ?' 07; 2 OA/99/5A0

?10 2/?/?@/2 7 .1>/ '//5 45 124'# @/45=45 J;194 0 0?
78 =7>/2572 7 ./ 62/'/5 129 78 /4A/' /2# 15< 57 :
75/ 78 ./ A.1?@/29145'1 157>/2#.1' @//5 ./2/ 872
'7?/ 4?/# 15< /5 /2/< 45 7 '/>/219 . 9/ 45 24=;/' 7
627?7 / ./ 45>4 1 475) @; . / 9/A 72 <4'1>7 : ' .4?#
15<.1' 72</2/<.4?' 7 2/ ;25 7 .4' 67' # 2 A.h K
.1' .C/:4'/ </A912/< .1 : .1 2 A7 <4< :1'
:4.7; 45' 2;A 475' 4' =/5/21990 @/94/>/< .1 ./
62/'/5 ;C/ 78 />75'.42/ >499 .1>/ .4' 81 ./2&' '188#
15< .1 07;2 OA/99/5AO :499 .1>/ 07;2 =;12<'1=145)
./14&490 :4'.4 # 15< .1 07;2 OA/99/5AO ?10 57
612 :4 .&/?48 07;'A7?/ 7 @/ /A2/ 120 78 1 / 4' .7;=. ?0 72< 4>/2' ?10 D745 :4 ./ ?19/A75B
/5 ' 5/O 0/12 1?# :4 . / =2/1 /' 2/'6/A # / A / A
X %

/ ./12 ?72/ 78 />75'.42/ 15< / /2@727;=.45
.4' 9/ /2 827?' <<4'75 (*

F 9 ; >E '#' $%$

* + / .1>/ 2/A/4>/< ./ @1<5/:' 78 ./
;C/ 78 1>70&' .1>45= 214'/< ./ '4/=/ 78 7;975#
:.4A. .1' =4>/5 1 =2/1 </19 78 '6424 7 ./ ?19/A7;B
/5 '# :.7 57:' 62/ /5< .1 4 :1' 75/ 78 ./ ?7' A.4?/24A19 15< 4?621A 4A1@9/ 627D/A ' .1 A7;9< .1>/
@//5 A75A/2 /< /' /O6/A 2 /65/0 />/20 ?7?/5
827?' 79915<# :.7 4' ?;A.@/ /2 .15 ./ :1'# 15< 7;2
6.0'4A415'# 827?' 2/1<45= .4' A1'/# =4>/ ;' =2/1 .76/'
.1 ./0 '.199 @/ 1@9/ 7 2/A7>/2 .4?# :4 . ./ ./96 78
./ @1 . 15< .4' 51 4>/ 142 0 72< / /2@727;=.
.1' @//5 45 7:5 19?7' 1 872 54=. # @; .1' 57 0/
:14 /< 75 ./2 1D/'0 4' 72<'.46 '10' .1 # @/45=
' 2;AC 7; 78 ./ 24>0 7;5A49# ./ .45C' 4 4?6276/2
7 =7 7 A7;2 499 ./4' '/5 872 ./12 ./ =4>/' 45 4F
?1 475' 1?75= .4' 824/5<' 78 .4' 45 /5<45= 7 @/ >/20
1A 4>/ 45 ./ 5/O 612.1?/5 72< 4>/2' 4' >/20 499

045

'1 4'84/< : 4 .' 72<' 19 : 10&"' A75<;A # 15<' 19C'" 6;@94A90'
7' .1 ' /84/A ' .4'# 15<' 7;2' ?4'A12241=/' @/872/' 7;975#
?10' 627<;A/' 1' : 12?' '/''475'') @; ' : /' 12/' ' 499' 45' .76/'"
./' ;C/' 78' 129@727;=.' :4 ' A7?/' 7' 7;2'2/94/8# 15<'
'/ ' + .45="' 24=. ' 1=145# 1"' ./' .1"' <75/' 872?/290# : ./5'
188142"' : /2/' 45' 1' ?72/' </'6/21 /' 67' ;2/ ' /72=/'
4/9<45=# ./' /J;/220# .1"' ?1224/< 1'=/5 9/ : 7?15' :4 .'
' 45' ?75/0# 15<' ' 1'0/12' 18 /2' ./' </1 .' 78' 1'
2/91 475 ' 0' 72<' ;5</2915<' : 499' 2/ 4;25' 7' .4"' 7884A/'
./' @/=45545=' 78' 5/0 ' : //C ' ' '
H' ./' ;C/' 78' />75'.42/# 1' 94 9/' @/872/' .4"' </1 .#
=1>/' 2 ' 12 .' 1'>/20' 845/' <41?75<' 245=' 788' .4"' 845=/2 '
4"' '75' 4"' >/20' ?;A.' 19C/<' 78' 7' ';AA//<' 45' ./' 7884A/'
78' 72<' 4=.' / : C2<' 78' ./' .7;'/.79<
H' '1?# :4 .' =2/1 ' 2/'6/A # / A ' / A #
' + '

1662/./5'475 ? ;' 7:5 A1557 ?1C/ 1" 0/ 150
24=. D;<=?/5 :.1 ./0 :499B <7 ./2/ 4" A/2 145
./0 .45C 4 ./42 45 /2/' 7 @/ :/99 :4 . /J;//5
15< @/./>/ :7;9< <7 />/20 .45= 7 7@ 145 4 #@; ./
@2/1C45= :4 . !15A/# :.4A. 45 /88/A 4" <745= 57 .45=#
';A. 1 81 194 0 1 /5<" ./? 7 2/A/4>/ 150 <42/A 475"
827?' 07;2 72<'.46 4" 57 1 94 9/ '1 4'81A 475 7 ? /)
15< '.199 /5</1>7;2 '7 7 1A 1" ?10 </'/2>/ ./
A75 45;1 475 78 07;2 81>7;2 15< 627 /A 475

H 1?# / A I

72< ;5</2915<# 4 :499 @/ 7@'/2>/<# ' 9 ;2=/< ./
129 78 15A./' /2 7 /5</1>7;2B 7 ' 42 ./ !/5/ 415"
7 1C/ ?/1';2/" 78 1A 4>/ .7' 4. D+# 45 A75D4?A 475 :4 .
./ 1994/'# 1=145' 215A/) @; ./ 4=5720 :1" A1; 47;"
15< 6794 / * 627?4'/< ?;A. 15< <4< 57 .45=

7 ,C+' #&' $%$

H .1>/ ./ .7572;' 78 07;2 72<'.46&"
78 ./ .' 15< 3 .' 45' # 1?'>/20 '/5'4@9/
./2/ 4" @; '>/20 . 9/ .76/'# 48 150# 78 /5=1=45= ./
!/5/ 415" 7 </A912/ 1=145' 215A/# /'6/A41990 A75'4</2F
45= .7:';52/1'751@9/ ./ /2?15" 19:10" 12/# :./5
./0 .1>/ ./ ';6/24724 0) .7:/>/2# 4 4" :72 .' 2045=
872' 7 :4 .' 15<45= 7;2 <4'166745 ?/5 1 7;975#
:/ ?;' =7 75 :4 . ./ '1?/ >4/:" 78 2/45872A45= 7;2
12?0 45 190 1" ?;A.' 1" 67''4@9/# 15< ./2/ 4" 57 :10
78 <745= 4 '7 /1'0 1" .1 ' 78 =/ 45= 1 @7<0 78 ./
!/5/ 415 2776' 7;2 72<'.46 :499 ./2/872/ A75F
45;/ 7 <7 1 ' 45 07;2 67:/2 7 /5=1=/ ./?# '@/94/>/
?0 72< 2/1';2/2 :499 :24 / 7 07;2 72<'.46 7 ./
'1?/ /88/A ' '1?' '7220 7 845< 7;2 2/>79; 475 1 169/"
4" 57 '.C/ 7 A75 45;/ '7 J;4/ '1" 75/ :7;9< :4'.) @; '
: 75</2 1 ' 57 .45= ;5</2 1 =/5/219 1<?454' 21 475
H ' 1?# :4 .' =2/1 2; .' 15< 2/'6/A #
H 7;2 72<'.46&" 7@/<4/5 '.;?@9/' '/2>15 #

F G

% !

. /' 87947 >45=' 9/ /2' 2/ ' ; ? / '' ! 15@2 ; = . &'' 1AA7 ; 5 ' 78'
. /' 19 /21 475 '' . /' : 1'' /88/A 45=' 45' " 4 ? @79 75' 1' 9/# 15<'
A75 145 '' 1' '4 ? 69/' 15<' ? 1590' </8/5A/' 78' . 4 '' 7 : 5' 6915 ' '
. /' ' 78' . 4 '' 57 /' >1' . /' 499 ; ' 247 ; '' 624 '75/2' 78'
9/5 . /4 ?) . 4 '' 97 ' '' 78' : . 4A . ' @1 9/' 627A ; 2/<' 872' ! 15F
@2 ; = . ' . /' 9 ; A21 4>/' A7 ? ? 4 ' '475' 7' @ ; 49<' 1' 5/ : ' 6191A/'
5/12' 77<' 7AC# 872' 19912<&'' A75J ; /272(*

' ' ' ' '

' * ' ' ,C+ ' ' $%$

' ' * ' 845<' 07 ; 2' 72<' . 46' 4'' 57 ' : 4 . 7 ; '
'7 ? /' 8/12'' . 45='' ' . 7 ; 9<' 57 '=7' J ; 4 /' 24=. ' 1 ' " 4 ? @79 75#
@ ; ' 48' 07 ; ' . 1>/' 57' =2/1 /2' 7@D/A 475'' . 15' . 7 ' /' 07 ; '
? /5 475# ' <7' 57 ' <7 ; @ ' @ ; ' ' ' . 199' ' // ' 07 ; ' /5 ; &/90'
' 1 4 '84/<# . 7 ; = . ' 75/' A1557 ' 6/2 . 16'' <7' 4 ' 8 ; 990' @0'
9/ /2 ' ' ' <7' 57 ' </50' @ ; ' . /' 199' ? 4=. ' @/' ' ; 884A4/5 '
45' ' ; A . ' 15' 1612 ? /5 ' : 4 . 7 ; ' 150' 7 . /2' =2/1 ' 277 ? #
@ ; ' 4 ' <7/ '' 57 ' 87 7 : ' . 1 ' . /' 1612 5D/5 ' 4'' . /' : 72 ' /'
872' 1' ' /A75<# 15<' 45' . 4 '' A1 ' /' 4 ' '7' 8199'' 7 ; ' . 1 ' . /2 /'
: 1'' 57' : 10' 78' 1>74<45=' 4 # : 4 . 7 ; ' L45' ? 0' D ; <= ? /5 M'
; /290' '674945=' . /' 1612 ? /5 ' : 4 . 45' 72' . /' 8275 ' : 4 . F
7 ; ') @7 . ' : . 4A . ' 12/' . 4 '' : 10' '1>/<# 15<' . 1 ' 7590' @0'
1<<45=' 75/' 277 ? ' 78' ' 1 /# 72# 45' 2 ; . # 7590' ? 1C45=' 4 ' 1'
94 9/' @4==/2' . 15' : 1'' 1@' 79 ; /90' 5/A/ ' ' 120 ' 57 . /2' . 45=#
7' @/' 7@' /2>/<' 4' # . 1 ' . /2 /' : 1'' 57' >10' 78' <4' 67' 45=' '
. /' ' 61A/' 7' @/' <4 ;</<' : 4 . ' 9/ ' '' /06/5 ' /' . 15' . 4 '' : 10#
872' : 7' ' ? 199' 277 ? '' A7 ' ' ? 72/' 45' 8454 ' . 45=' . 15' 75/'
=2/1 ' 75/ ' '' 7' . /' . /4=. # 07 ; 2' 72<' . 46' '10'' 2 ; /#
. 1 ' . /0' 7 ; =. ' 1 ' 7' @/' /4=. //5' 8// # 15<' ' 7' . /0' : 499 '
/' A75 '4</2/<' . 7 : ' 7' <4 ' 67 ' /' . /' ' 1 ; &'' <7 >5' 45 7' . /'
=12</5' ' 7' 1'' 57 ' 7' @2/1C' 77' ? ; A . ' 45 7' . /' /221A/#
15<' 199' . 1 ' ? 1 /2' : 4 ' @/' >/20' : / ' 7 ; 2' 72<' . 46'
'10'' 07 ; ' : 7 ; 9<' . 1>/' . /' A/4945='' A7>/2/<' 872' 6145 45=' '
1'' . /' 1 ' 4'') ' 1 ? ' 18214<' . /0' 12/' 77' 97 : ' 872' 6145 45=#
572' : 499' . /0' 1<? 4 ' 78' 1' A7>/245=' >/20' </16# @ ; ' 48'
07 ; 2' 72<' 9446' 2/ ; 25'' @/872/' . 4 '' 4 ? /' : /9>/' ? 75 . ' #
07 ; ' : 499' @/' 4 ? /' /57 ; =. ' 7' A75 '4</2' . /' ? 1 /2' ; 675

. /' 691A/# 872' ' 2/AC75' . /' . 7 ; ' /' U'>499 57 ' @ /' A7>/2/<' @/872/' 4<' ; ? ?/2' ' : 1'' . /2/' 1@7 ; ' '4O' : //C'' '45A/') 4 ' : 1'' . /5' @ ; ' '4O' 72' '/>/5' 8// ' . 4=. ' ' . C/<' ? 4=. 0' : /99' : . 1 ' : 1'' <75/# 15<' 79/ ? 15' 7 : 5/<' . /' @/=15' 7' <4'A7>/2' 1' = ; ' 7' 45' 4 ' . 1 ' . /' . 1<' 57' 57 475' 78' @/872/ ' ' '. 199' @ /' ? ; A . ' </A/4>/<' 48' 6/769/' <7' 57 ' '//' 1' ? 159O' @/1 ; 0' 45' 4 ' : . /5' 4 ' 4'' ; 6# . 1 ' . /0' <4<' 57 ' A75A/4>/' A7 ; 9<' @/' 627< ; A/<' 7 ; ' 78' ' ; A . ' 27 ; = . ' ? 1 /2419')' @ ; ' 4 ' 4'' A/2 1459O' . /' 84=; 2/' 15<' 6276 72 475'' . 1 ' ? 1C/' . /' ? 7' ' 69/1'45=' 81@24A# 15<' 57 ' . /' </94A1AO' 78' . /' 7251 ? /5 '# 1' 62778' 78' : . 4A . ' ' 1 ?' 45' =2/1 ' . 76/'' 7' ' . 7 : ' 07 ; 2' 72<' . 46' 1 ' "4 ? @79 75 ' ' 1 ?' 57 : ' =745=' @1AC' 7' 9/5 . /4 ?' 872' 1' 872 54=. #@ ; ' 5/O ' ? 75 . ' ' : 499' ? 1C/' 157 . /2' 246' <7 : 5 ' ' : 1'' < ' 45<' 72' 0/' /2<10# 15<' . /' ; C/' 78' />75' . 42/' : 1'' ' : 725' 45 7' . 4'' 81 . /2& 691A/' 78' / : 12<# 15<' 1' =2/1 ' <455/2' : 1'' 62/612/<' 872' . 4 ?' 1 ' . /' 2//5BA97 . ' 4'' 81 . /2' 9/8 ' @ ; ' 1' ' ? 199' /' 1 /' 18 /2' 199# 57 ' 1@7>/' # + # 1'' 42' $1 ? /'' 72@/'' /99'' ? /' /' '10'' . /' /' 1 /' A7 ? /'' 7' . /' 62/' /5 ' ; C/' A . 12=/<' : 4 . ' @ ; ' 3# P # . 4'' '4' /2'& 672 475'' 15t 4 1 ' . 45='' 45A9 ; </<# 15<' . /2/' 4'' < ; /' 827 ?' /515 '' . 4'' 4A . 1/9 ? 1'' # P # @/'4</'' -' 72' 3# P ' 45' 2/1<0' ? 75/O# 15<' 1' 6/2'7519' /' 1 /' 45' D/ : /9'# 691 /# 15<' 64A ; 2/'# bA ' 7' 1' >/20' =2/1 ' >19 ; /) '7' . 1 ' . /' 4'' 9/8 ' 45' 1' >/20' =77<' A75<4 475# 15<' ' 815AO' : 499' C//6' . 4 ? '/98' '7' ' . /12' 07 ; 2' 72<' . 46' 4'' 788/2/<' . /' 691A/' 07 ; ' 872 ? /29O' . 1<# 15<' . 1 ' . /' ; C/' 78' 4A . ? 75<' 4'' 7' . 1>/' 4 ' 48' 07 ; ' 2/8 ; '/' 4 ' /' . 1>/' @//5' 1' 94 9/' <; ' . /2/' ; 675' . /' <4'166745 ? /5 ' 1 ' 7 ; 975 ' ' : 1'' : 4 . ' ? 0' 72<' 72F A . /' /2' 15<' 2 ' 12 . '9/' 7' ? 1C/' /5' ' 19/12<' 1' >4'4 ' 1@7 ; ' . 2//' : //C'' '45A/# : . 7' 79<' ; '' D ; ' ' . 7 : ' 4 ' : 7 ; 9<' /5<# . 7 ; =. ' : /' <4<' 57 ' . /5' @/94/>/' . 4 ? ' ' 1 ?' 7@94=/<' 7' 07 ; 2' 72<' . 46' 872' 07 ; 2' =77<' : 4' . /'' 7' ? /' ' . 76/' ' '. 199' 2 ; @' . 27 ; =. ' ? 0' <4884A ; 9 4/'' 1 ' 91' # 15<' @/' 1@9/' 7' : 14 ' ; 675' 07 ; ' '7 ? / 4 ? /'' 45' 6/1A/' 15<' J ; 4/ 5/' '' 45' . /' A7 ; 5 20 ' ' ? 7' ' . /12 490' : 4' . ' 07 ; 2' 72<' . 46' 1' '6//<0' 2/ ; 25' 45 7' 5=915<' 15<' 1 ' . 16645/' '' : . /2/

#&#

07;' 12/' 57: * /45=#: 4 .' 1' =2/1 ' </19' 78' '45A/24 D+#
07;2' 72<'.46&"' 7@.=/<' 15<' ?7'' 7@/<4/5' .;?@9/'
'/2>15 #

H' $' 8

5' ./' '1?/' ?75 .' .1' !15@2;=.&"9/ /2' :1'6/4?/<'
L /6 /?@/2' , ,M#' <<4'75' :24 /"' 7' 1557;5A/' ./'
</1 .'78' 2' /65/0# ./'79<' /' ?45' /2'@70#1?1 /;2'
67/ #' 15<'A7??4''475/2'78' 21</' 5' ./' 3' .'78' ./'
?75 .#' <<4'75' '10"'(* H' 2' /65/0' <4/<' 0/' /2<10#'
15<' :499' @/'@;24/<'45' /' ?45' /2' @@/0' '5//<'57'
/ '07;'.7:'?;A.'./'4"'91?/5 /<' @0' />/20@7<0' ./2/')
15<'<75&'0/'./12'150@7<0'51?/<'872'.4"''; AA/''72'45'
./' A7??4''475' 78'B 21</#' 72' /5>70'.46' 9<' 2'
15.76/#' './12#4"'<045= I' ./5'87997:"'1'9/ /2'A75F
14545='?72/'5/:"' 7;A.45=' ./'/' ?/5#:/99'C57:5'45'
'7A4/ 0#45' ./42' 4?/#:4 .'57 4A/"'78'1'=2/1 /2'?15#@/ /2'
C57:5' .15' ./0#45'7;2'15519"'57:(*

' ' ' '

' 9; ' 4+5=,-'$<# $%$

' #' .1>/' 2/A/4>/<' ./' .757;2'78' 07;2'
72<'.46&"'9/ /2#15<':499' 7B?7227:' 910'07;2'@499"'78'
/0 2172<45124/"'@/872/'?0' 72<' ;5</2915<'45'72</2' 7'
=/' ./?' '4=5/<'@/872/'?0' 72<' 2/1';2/2' =7/"' 7'
/:?12C/
H /'.1<'0/'/2<10'9/ /2"'827?' 42' 97;</'9/0' .7>/9'
:.4A.'10' .1#1AA72<45=#' 7' ./' ?7'' 627@1@9/'2/672 '#'
./' 2/5A.'.1<''; 5C' :/5 0'78' ./42'?/5B78B:12#' /5'78'
:.4A.'12/' .2//B</AC''.46'#' 7'62/>/5' ./42'@/45='@;25'
;2''/1?/5'./2/' '10' .1' 48' ./0'A15'@/' :/4=./<' ;6'
./0' :499' 5/>/2'@/' 84' 872' '/2>4A/' ./' '1?/' 9/ /2"'
1<<' .1' ./'842/':.4A.' ./' @7?@"' .1<'214'/<'@;25''7'
A9/12' 15<' :4 .' '7' ?;A.' 8;20' .1' 7;2' 1<?4219'
A75A9;</<' 4' A1?/' 827?' ./' '.46"' 72' 12'/519'#' @;'
.1'1'27AC' :.4A.'910'45' ./' :10' .45</2/<' ./?'827?'
'//45=' .7:' ./0' 8/99' 2' /65/0' :1"' @;24/<' 91'

54=94 ' 494' /' ?45' /2' @@/0 ' 9<' 2 ' 15.76/' 4'' </1<') ./0' '10' 974'' <1;=. /2' 4'' =745=' 7' @/' ?1224/<' 7' 2 ' !15/# ' 15<12<B@/12/2' 7' ./' @15<' 78' 6/5'475/2' ' ' ./12' ?0' 72<' / /2@727;=.' 4'' 72</2/<' 7' =4>/' 45' .4'' 1AA7;5 '' 75' ;5<10' 5/O # 7' @/' /O1?45/<' @0' ./' 7?? 4 //' 78' 72<'

H' ' 1?# :4 .' ./' =2/1 /' ' 2/'6/A #

H' 7;2' OA/99/5AO&'' 7@/<4/5 ' .;?@9/' '/2>15 #

H' $ '

5' 1' ';@'/J;/5 ' 9/ /2# <<4'75' A7?69/ /'' /65/0&'' .4' 720# @0' :24 45=# 45' 1' 9/ /2' 1<<2/''/<' 7' 2 ' 79/(*

H' [R 2 ' /65/0' 9/8 ' 7' 2 ' 2472' 1' 9/=1A0' 78' - # 7' ?0' 72<' 19481O' 1' =79</5' A;6' <5<' ' 7?/'' 78' .4'' .@2120# ./' 2/' ' 78' 4 ' 7' =7' 7' O' /:4'# 15<' 1' '49>/2' ;25' 15<' @1'45' 7' 2 ' 12<755/9 ' 4'' /' 1 /' 4'' <4>4</<' @/ :///5' .4'' :7' '4' /2'') ./' @/' ' 612 ' 78' 4 ' ./'' 45' ./' 2/1';20# :.4A.' 7:/'' 944?',# 4 ' ./' 7@'/2>1 72' 4'' </1<

H ' 1?# '42# 07;2' ?7' ' 7@/<4/5 ' '/2>15 #

'

_$ ' #!' $%$ G

: 4 . 7 ; ' M76/" 78 45 . /24 45=' . 4" 6276/2 0# . /0 614< . 4 ?'
. /' A7 ? 6 . ? /5 ' 78 A19945=' . 642 '75 @0 . 4" 51 ? /
4 9/' 97 ; </ '9/0 . 7>/9 : 1" 1AA72<45=90 977C/<
; 675 1" 1 @70 >4 .' 8142 /O6/A 1 475" 15< @24=. ' 627F
'6/A '# @ ; ' . /' /O6/A 1 475" ; 25/< 7 ; ' 7 @/' 81991A47 ; '#
15< 944" 627 '6/A " : /2/' '775 1C/5 827 ?' 157 . /2 6745 '
78 >4/ : ' . /' A7 ; '45 97 ; </ '9/0 <4/<# 15< 9/8 ' . 4"
51 ? / '1C/' 57 . 45=' 4" 612/5 " A7 ? 6/5 '1 /< . 4 ?'
15< . / ? ' /9>/" 872 . /' <4 '166745 ? /5 # @0 @45<45=
. /' @70 1662/5 4A/' 7 1' ' . 7 / ? 1C/2 N
97 ; </ '9/0 . 7>/9 <4< . 4" < ; 0# />/5 ; 5</2 . 4"
A191 ? 4 7 ; " A42A ; ? ' 15A/# 15< </24>/< 1<>15 1=/' . /2/F
827 ? ' /' . 1< 15 45A . 51 475 872 1' 51>19 . 8/# 15< 57 '
7590 1' </ '42/# @ ; ' 1' A161A4 0 87+# 9/12545=# A7 ? 62/F
. /5<45=# 15< ? 1' /245=' . /' </ 149" 78 . /' 'A4/5A/' 78
51>4=1 475 ' 7 1AA7 ? 6 . ' . ' . 4 '# 9 ; " 1662/5 4A/ ' . 46 7
' . 7 / ? 1C45=' 18872</< . 4 ?' ? 150 1' >1A15 ' . 7 ; 2# 15<
: . /5 . /' 07 ; 5=' 8/997 : ' . 1< 1AJ ; 42/< 1" ? ; A . ' 1" . /'
E . 7 ; = . ' ? 4=. ' ' ; 4 ' . 4" 842 ' ' 6 ; 267 '/# . /' 62/ ' /5 /<
944 ? ' /98 7 42 . 24 ' 76 . /2 &; ? " 1" 1' A15<4<1 /' 872
. /' 7884)/' 78 A1@45B@70 ' /' . 1< . /' =77< 9 ; AC 7 @/'
1AA/6 /<
/' '775 . 1< . /' 4 ? 61 4/5A/' 78 1@9/' 6/769/' 45 15
458/2472 ' 1 475# 15< 975=/< 7 @/' 1@7>/' A1@45B@70
' /2>4A/ ' ; AC490# 97 ; </ '9/0 8/99 ; 5</2 . /' 57 4A/' 78
@9 ; 88 42 $7 . 5 12@727 ; =. # 1' 51>19 A7 ? ? 15</2 78
. /' 79< 'A . 779 : . 4A . ' '14< 94 9/' 15< ' 2 ; AC . 12< '
12@727 ; =. ' . 1< ' 12 /< 827 ?' 1' . ; ? @9/' 67 '4 475# 94C/'
. 7>/9# 15< . /' >1 19 : 10" 2/1<0 7 =4>/' 1' . /9645=
. 15< 7 199 : . 7 : /2/' 2 ; 5545=' . /' '1 ? /' 21A/ ' /' =1>/'
. 1 ' 14< 7 07 ; 5=' 97 ; </ '9/0# : . 7# ; 5</2 42 $7 . 5# '7
J ; 4AC90 ? 1</' : 10# . 1 ' : . /5 . /' 91 /2 : 1" </ '61 A . /<
: 4 . ' 1' 'J ; 1<275 7 2467 94# 45 3 , # . /' 77C . 7>/9 : 4 . '
. 4 ?' 1" 75/' 78 . 4" . / ; /515 '
. /' ? 4 ' '475 : 1" 21 . /2 1' 6/1A/1@9/' . 15 1' : 12 . C/'
75/# @ ; ' 97 ; </ '9/0 =1>/' 4 E . /' ? 72/' 94>/90 1'6/A

./ 81A '' 12/ ./'/ ./ 2467945/ A72'142'' .1< @//5 69;5</245= 7;2 ?/2A.15 51>0 45 ./ /<4 /2215/15) 7 A./AC .4'# 12@727;=.: 1'' '/5 7; : 4 . 45' 2;AF 475'' 7 2/?75' 21 /) .2/1 /5# 15< 5/=7 41 /) 45' '.72 # 7 1C/ />/20 ' /6 : 4 . ./ /0# /OA/6 =7 7 : 12 : 4 . .4?# ;59/'' ./ 91 /2 A7;2'/ '.7;9< @/ </!?/<# 45/>4 1@9/ 15<' ;2/ 78 ';AA/''

./5 ./ 'J;1<275 1224>/< @/872/ 246794# 12B @727;=.'/5 B .7>/9 7 ./ /0# 45 72</2 7 45<;A/ ./ @12@12415 7 A7?/ 7 '7?/ '1 4'81A 720 12215=/?/5) @; . /0 7590 91;=./< 1 ./ 07;5= 94/; /515 # 15< '/5 .4?' @1AC : 4 . 15 ;5A4>49 15' :/2 .7>/9 :1'' 1=145 A7??4''475/< 57 7590 7 2/1 : 4 . ./ /0# @; 7 977C 1@7; .4?' 15<?1C/ ';A.7@'/2>1 475'' 1'' ?4=. @/ ;'/8;9# '.7;9< ./ /0 627>/ 2;</ /627>/< 2;</2 .15 @/872/# @; 97;</'9/0 945=/2/< 1@7; ./ 872 15< .12@7;2 1'' 48 ./ :/2/ :14 45= 872 1 ?72/ =21A47;''2/690 .4'' ./ <4< 7 ';A.=77< 6;267'/ .1 # 1'' 1 7C/5 78 ./ '/5'/ /5 /2 145/< 78 ./ /0&'' ;5A4>49 7@' 451A0# ./ /5 /2/< ./ 672 # : 4 . 1 89// 78 @71 '# 75 ./ 54=. 78 ./ - . 78 12A. 3,-# 15< @;D94/< 199 ./ >/''/9'' 45 ./ .12@7;2

./2/@0 A1?/ 627?7 475) ;5</2 .129/'' 16 145 .7>/9 A7??15</< ./ 16.42/+15< ./ $1?/') 15< .27;=.7; ./ 2/4=5 78 $1?/'' ./ :1'' A16 145 78 ./ 7>/2 .46# A2/:# 15< A16 145 :/5 7>/2 7 49941?' 78 215=/# : 4 . 191A24 0) 15< .7>/9 @72/ .4?'/98 : 4 . ';A. <4' 45A 475 45 94/ 188142 : 4 . ./ 2/5A.# 788 15 20 10# : ./2/ ./+ A7??15</< ./ <=12# .1 49941?' A758/22/< 75 ./ @21>/ 8/997 : ./ .757;2 78 C54=. .77< ;@'/J;/5 90# 45 3 # : ./5 ./ C45= '/ '149 827?' ./' /2 872 2/915<# ./ 27019 '.46 15< 1 89//' 78 215'672 '' :/2/ A75>/0/< 1A27'' 145 /72=/&'' .155/9 @0 1 'J;1<275 78 ?/5B78B:12# ;5</2 ./ A7??15< 78 7??7<72/ 42 97;</'9/0 .7>/9 7 ';A. ./4=. .1<24'/5 94/ 75A/ '.7/?1C/2&'' 1662/5 4A/

5 ./+87997:45= $15;120# :./5 49.1?:/5 7 79915<# 45 ./ =77<90 A7?6150 78 />75'.42/ 15< 72'/ # 75?7;.# 72879C# 2?75<# ;9/5'/45# 15< 7?6 75# 4'.76 78 75<75# ./ 62/A47;".>/" .1 :/2/ 199 '7 5/1290 97'75 ./ ;A.A71'/2/;5</2 ./ A75>70 15< '18/=;12< 78 :7 =2/1 1<?4219'42 97;</'9/0 .7>/9 15< 42 /72=/ 77C/7 .4" 7884A/ ./ 872?/2 1<?4219 .1<@//5 627?7/< 872 .4'# 627?6 1A475 45 ./ 24'.'/1'# @;/'6/A41990 1 1 /2872<" 42C/.1< 45>145 24/< 7 A16;2/ ./ 691A/# ./ =1224'75 4?</2 7;2C# 45 ;5A15575 1'9/# />/2 4?6/<45= .4?) @;/ 42 97;</'9/0 A1?/# 9/5 " 42C/?/5 15<=4?"827?.4" '.46#;5<@0'./96 78 .4" 51>19 'J;1<275 1'.72/# ./ ' 275=.79< 78 ./ $1A7@4/" ';22/5</2/< 7 4 " @/'4/=/2'

./5 87997:/<.4" ?1' /290 1A :.4A.=1>/.4?'7 ?;A.78 ./ =9720 2/16/<;5</2 ;''/99 45 ./ @1 9/ J8 1 7=;/# :./2/ 42 97;</'9/0 1<?454' /2/< ./ (D(:./5# 7;'/ ./ :72<" 78 15 79<@47=21F 6./2# H.1>45= :/1./2/< ./ 1<?4219&" 7:5 'J;1<275# ./ =7 @/ ://5 ./?15< ./ 1<?4219 78 ./ @9;/# @; # 84245= 75 ./ 2/5A.872'7?/ 4?/# @7 . 7;2>4 / 15< ./ 1<?4219 78 ./ 'J;1<275 A7?/ 7 15 15A.72# @; A7;9< 57 '//1A.7./4)# 7:45= 7 ./ .4AC5/'" 78 ./ :/1 ./2 I

5 3 # 42 97;</'9/0# 1 </ /2?45/< 944=# '.12/< ./ A7??15< 78 ./ 89//:4 . Y91>14 15< "4994=2/:# /J;1990 </ /2?45/< 744/' ./0 .1< A.12=/ 78 .1 A/9/@21 /< ?0251 89//78 ?/2A.15 '.46'# :.4A.:1" 627 /A /< '7 @1<90+ .1 7;2>4 / 'A1 /2/< ./?> 7>/2 ./ 7A/15# 15< 45894A /< 4??/5'/ <1?1=/ 75 5=915<# 45 @7 .?75/0 15< 62/' 4=/ .4" A191?4 0# .7:/>/2# .166/5/<:./5 42 /72=/ 77C/.1<1'';?/< ./A.4/8 A7??15< 78 ./A75>7045= 89// ./ ;A.# 75 .4" 7AA1'475# 4'';/< 1 A124A1;2/# 45 :.4A. ./ 2/5A.:/2/ '//5 A16;245= ./ ?/2A.15 ?/5# :.49/ 42 97;</'9/0 .7>/9 :1" 2/62/'/5 /< 75 .4" 7:5 '.46# :4 . .4" .15<' 0 ?

% !

4/< @/.45< .4?# 15< "4994=2/:' 15< /9 >19' /1A.'
.79<45=' 15' /5<' 78' ./' A72<# 1"' 48' 7' 62/>/5' .4?' 827?'
=745=' 45 7' 1A 475

42' 97;</'9/0&"' /O69151 475"' A9/12/<' .4"' 7:5' A.1F
21A /2# 15<' 75 1=; * ./' 725/0B /5/219' 15<' ?7'
@2499415' 78' 2./ 724A415' * /'6/A41990'</8/5</<' ./' .4='
612 0' 827?' 1 ' ';'64A475' 78' 2/1A./20
'/8;9' 21 ./2' .15' @2499415' :/2/' .7>/9&"' 5/O'
'/2>4A/'' 5' ./' /O6/<4 475' 1=145'' 2/'';5</2' 72<'
/2C9/0# ./' 1'9/1'' '/A;2/<' ./' '18/' 2/B/2;@12C1 475' 78'
./' 2776')' ./' 2/5</2/<' '4?4912' /88/A 4>/' 14<' 45' ./'
188142' 1' 4/66/)' 15<' 48' ./' 8149/<' 45' 2/<;A45=' ;5C42C#
4' :1"' 57' 45' ./' .1<' 6/5/ 21 /<# 45' 1' @71 # :4 .45' ./'
/5/?0&"' :72C'# 15<' .1<' '1 4'84/<' .4?''/98' .1' ./' /5<'
45' >4/:' :1"' ; /290' 4?621A 4A1@9/
./' 6/1A/' 78' 0':4AC'=1>/' .4?' 9/4';2/' 75' '.72/# 15<'
;5</2' W;//5' 55/' ./' @27;=.' .7?/' ./' '6749"' 78' ./'
6154'.' 15<' 2/5A.' 89// "' 827?' 4=7)' :4 .' 15' 451</F
J;1 /# 899B 2145/<# 15<' 'A15 490' >4A ;199/<' 872A/# ./' C/6'
./' 2/5A.' 45' A75' 15' 1912?# 15<' /5</<' @0' @/1 45='
./?' 788' 191=1# :.49/' 42' /72=/' 77C/' <4<' . 9/'
?72/' .15' 977C' 75# 0/' 2/16/<' 1' =2/1' '.12/' 78' ./'
=9720# 42' 97;</'8/0' A.//28;990' 1''/5 45=
;' 872' .4?#g 72<' / /2@727;=.' :7;9<' .12<90' .1>/'
@/'4/=/<' 12A/9751' ';AA/''8;990' <?4219' .7>/9' 9/5'
.4?' ?/5' 15<' =;5'# 15<' 8;254'./<' .4?' :4 .' ';6694/"' 78'
877<' 15<' 1??;54 475' 27?' .A15 # ./' :1"' A199/<' 7'
A776/21 /' 45' ./' '4/=/' 78' 7;975# 15<' 18 /2' 2/5</245='
.4"' 91'' '/2>4A/# ./' 2/ ;25/<' 7:12<"' 5=915<' :4 .' /5'
'.46"' 78' ./' 945/# 84>/' 824=1 /'# 87;2' 842/B'.46'# 1' '9776#
15<' 1' 01A.
5' ./' />/545=' 78' A 7@/2' # , ,# .27;=.'
'7?/' ?4' 1C/' 45' ./' 2/AC7545=# ./' 1<?4219&"' >/''/9# ./'
''7A41 475# 15<' '/>/219' 7 ./2' '.46"' 78' ./' 89// # =7'
/5 15=9/<' 1?75=' ./' 27AC"' 788' ./' A4990' '9/'# :./5'
/5';/<' ./' A191?4 0' '7' =216.4A1990' .7;=.' @24/890' 79<'
45' ./' 87997:45=' 9/ /2' 827?' <<4'75'(*

2 &! " 4+' $%$

H 5 # * /' /2<10# :/ .1<5/ :' .1 ' ./@7<0 78 42 97;</'90 .7>/9 :1'87;5<75 ./A71''78 725:199' ./84'./2?/5 :.7 :/2/ '/12A.45=1?75= ./ :2/AC' 77C1 45@70 7;' 78 ./67AC/' 78 75/78 ./A12A1''/' .1 ' :1' 8971 45=# 15<87;5<45 4 ' ./A7??4''475 78 15 1<?4219);675 :.4A.#/O1?4545= ./@7<0 ?72/A97'/90# ./0 87;5<4 ' :1' 6772 42 97;</'90 7;' ?10 =;/'' ./A75<4 475 78 .4'' ;5.1660 :48/# :.7 97'# 45 ./ '1?/' .46 :4 .' ./2 .;'@15<#./2 :7 7590 '75'B@O 42 $7.5 12@727;=.' /@/=45 7 </'6142 78 ./ :7 7 ./2 ?/5B78B:12# 15<842/'.46# .1 '/5=1=/<1?75= ./ '1?/27AC'# .1>45=0/ '2/A/4>/<57 5/:' 78 ./?

H ' 1?' 42# 07;2 814 .8;9 .;?@9/''/2>15 #

H $ '

5 ';A.':4'/A97'/< ./948/78 ./=19915 '1<?4219 15</OB'.7/?1C/2' 4'' .757;2'' :/2/ /O 45A # @;' .4'' @977<:1'57 ' 4'' /9</''<1;=./2 ?1224/< 42 "7@/2' 12'.1?# ./842'' 72< 7?5/0 78 .1 ' 945/# 15< ./62/'/5 ' /129 4'' ./=2/1 B=2/1 B=215<'75 78 .7>/9&'' <1;=./2 .1 '91<0&'' '/A75<.;'@15<:1'' ./ 129 78 05<872<# 1 A7 4'.' 4 9/':.4A.'@/A1?/' /O 45A '45 ./ 0/12 Q ,

% !

827?. /69/1'15=7''4645=</ 149''45. /5/O
9/ /2# 827?. /794A4 72B /5/219 7. 4'C45'?15
1@271<# ./2/4''?;A.?1 /2 78=/5/219 45 /2/'19'7
./612.1?/5 199;</ 7:1''./842''612941?/5 78
, E) 15< 75 ./ 2< 78 A 7@/2.1<
/9/A /< 2 ?4.'1''4 ''6/1C/2 5/78 4 ''?/?@/2''
:1''.1 2 '=499:.7:1''/O6/99/<./.7;'/872
.1>45= 6;@94'./<1'@77C45:.4A.'./?145 145/<.1
1?15?4=.'61''7 4??72 194 0.27;=.'7./2:10''
.15./45/>4 1@9/672 19''78 </1.'./.757;21@9/
?/?@/2&'' @77C:1''@;25/<@0./.15<''78./
A7??75.15=?15
./2/8/2/5A/7./5475 4''2/8/2/5A/7 1''; @D/A
:.4A.'./5 7AA;64/<?7''?45<'# @;'A.4/890.7'/78
./A7 '# '7?/78:.7?':/2/:75'7'10.1
10 # , ,#:1''1'<10 5/>/2 7 @/872=7 /5 @0./
A7;5 20#:.4A.'./5 97''4''7>/2/4=5 0 15< 82//<7?'
5=/5;4 0 <4'A7>/2/<'7?/A;247;'' A745A4</5A/'' A75F
5/A /<:4.'./=2/1 A '.;'# ./842''12 4A9/
78.1 A':1'' 16627>/< 78 75 7>/?@/2 '*'15<
.1':1''87;5< 7 @/./1554>/2'120 78./@42.<10
78 H 7;2;A.'1>47;2#I''1''./A7 '' 42754A1990 A199/<
" 45= 49941?'./5./A'872./2/<;A 475 78./
A7 4'.'6//21=/:1'' 61''/< 75 $15;120 Q# 15< 6/769/
2/?12C/< .1 # 75 .1' <10# ./:12215' 872./
'91;=./2 1' 9/5A7/:1'' '4=5/<# 15< .1'./129 78
142# :.7 '4=5/< 4 # .;<= .4?'/'' 75 ./'1?/<10'
5 $15;120 3# ./2 4A9/'' 78 5475.1<@//5 21 484/<#

#!"

=4>/'' 75/' >7 /' 75' 75/' '4</' 15<' 75/' 75' ./' 7 ./2# 15<' ./' .42<' 4?/' <7/'' 57 ' >7 /' 1 ' 199) 15<' '7' 75' 2/=;91290 I

' A'

F 56' %' $%$

* + ' 4'' 57' '?199' '1 4'81A 475' 7' ;'' ./2/' 7' 845<' .1 ' ./' J;//5' 4'' 57 ' 4??45<8;9' 78' 07;2' 72<'.46' :.49/' 07;' 12/' 1 ' .4'' =2/1 ' <4' 15A/) 15<' ';5</2' 15<' ./2' 1D/' 0' .1'' /062/''/<'./2'/98' :/99' 69/1'/<' :4 .' ./' 9/ /2' 07;2' 72<'.46' :27 /' 7' ?0' 72<' 2/1';2/2' 1@7;' ./' 788/2' .1 ' .1'' @//5' ?1</' 07;' 0' 72<' 19481O# ' A15' 1'';2/' 07;#.1'' @//5' >/20' '7 A4 7;'' 1@7;' .4'' 188142# @;' 57 ' C574045=' :./ ./2' -' 57' 07;2' 72<'.46' :7;9<' 94C/' 07;2' 79<' 7884A/' 1=145# 18 /2' @/45=' 45' 1' ?;A.' =2/1 /2' 67' # :1'' 2/'79>/<' 57 ' 7' :24 /' 7' 07;' .4?'/98' 1@7;' '4 # @;' '9/1>/' 4 ' 7' @/' A7??;54A1 /<' 7' 07;' @0' ?0' 72<' 2/1';2/2# :.7' A15' 7590' =4>/' 07;' 1'';215A/' 78' ./' /J;4>19/5 # 15<' ' .76/' 07;' :4 ' 845<' 4 ' ?1</' =77<' 7' 07;2' '1 4'81A 475' ' 7:5# 872' ?0' 612 # ' :1'' 2/1<0' /57;=.' 7' .1>/' =4>/5' 07;' ?0' 1<>4A/' 7' 1AA/6' ./' 7884A/# @/A1;'/' 4 ' 4'' 7;' 78' ./' :10' 15<' :72 .' ?75/0# 15<' /J;4>19/5 '' 12/' 57 ' 19:10'' 6;5A ;1990' 614<) @;' ' :1'# 45' 1' ?155/2# 72</2/<' 57 ' 7' '10' 150 .45=' 7' 07;' 1@7;' 4 # @/A1;'/'07;' ?4=.' .1>/' .1 ' <75/' :.4A.' 07;' 07;2'/98' .C/' @/' ' 0' 1<0' 15A./'/2' .1 .' @//5' 91 /90' 45' 7:5' 1@7;' 2' 7@/0&'' :4 # :.4A.' './' ';'F 6/A '' 4'' ';662/''/<# @/A1;'/' 575/' @;' 1' >/20' 79<' 75/' 4'' 627<;A/<) 15<' '.1>/' :4 .' ./2' <4'A7;2'/<' 2' 1224'75# @;' A15' ?1C/' 57 .45=' 7;' 7' /4 ./2' 78' 7;2' '1 4'81A 475'' ./0' 62/ /5<' 7' '10' ./' 4'' </1<# ?;A.' 45' </@) 48' .1 ' @/' '7# ' .45C' :/' 7;=.' 7' =/' 45' ./' #- P' .1 '4'' <;/' 7' 07;2' 72<'.46' 1'' '775' 1'' ?10' @/' ' 62/''/5' ' <75&' C57 :' .7 :' .1 ' ';?' 4'' 7 :/<# :./ ./2' @0' @75<' 72' 7 ./2 :4'/# ./2/872/' ?;A.' </'42/' 07;2' 72<'.46' :7;9<' 45872?';'' 1@7;' '4 ' 0' 1<0# '6/2A/4>/#.1'' 1' ?45<' 7' .1>/' ./' ?75/0' 7' @/' 614<# 7:12<' '1 4'81A 475' 78' '7?/

</@ '' .1 ' 12/' 7 : 45=' 1?75=' ./' 21</'?/5 ' ;' 07;2'
72<'.46' C57 : '' .1 ' A15&' @/' <75/' :4 .7;' ?0' 72<' d #
277C/&'' A75'/5 # 1 ' 9/1' # 45' 2/=12<' 07;' .1>/' A7>/F
515 /<' :4 .' .4?' 7' <4'A.12=/' B ./' ;5 45=<75'.42/'
/' 1 /' 78' 1<0' / 0' 75 1=;&'' ?72 =1=/' 1'' '775' 1''
2' 7@/0&'á?75/0' @/A1?/' 6101@9/' 0' 1<0' 1?'
./' /2'.1'' </'42/<' ?/' 7' :24 /' 7' 72<' 277C/' 1@7;'
4 # @;' ' ./9<' 4 ' 6276/2/2' 7' .1>/' 07;2' 72<'.46&''
.7;=.'' 1@7;' 4 ' @/872/' :/' ?/5 475/<' 7' 150@7<0'
@/'4</')15<' '@/./>/' 07;2' 72<'.46' ?10'9/' ;'' ./12'
827?' 07;' ?72/' .15' 75A/' @/872/# .7;=.' 7@/0' :499' @/'
2/1<0' 7' 610'45' ./' ?75/0' ;2' 612.1?/5 ' ?/' 7' <7'
@;'45/''' .4'' 91'' 75<10# :./5' ./2/' :/2/' =2/1' /OF
62/''475'' 78' ?4=.0' <4''/5'475'1?75='' ;'' ?/?@/2'' 78'
./' 7;'/' 78' 7?2?75'# A75A/2545=' ./' </ /2?4545='
:./ ./2' .4'' 612.1?/5 ' :/2/' 1' 5/:' 72' 15' 79<' 612.1F
?/5 ' 2' 129/0' 15<' .4'' 824/5<'' :/2/' 91'' ' :/IC' 872'
</ /2?4545=' 4 ' 7' @/' ./' 79<' 612.1?/5 # A75 45;/<' 75'
@0' ./' 91 /' A ' 78' 12.1?/5 ' A75A/22;5=' ./' 5475# 45'
72</2' 7' C//6' 45' ';A.'?/?@/2'' 1'' .1>/# 7884A/')@;' ./'
?1D72' 612 ' 78' ./' 7;'/' @/45=' 21 ./2' 78' 7645475' .1 '
./' 612.1?/5 ' :1'' 1' 5/:' 75/# ./' ?1 /2' :1'' 1 ' 9/5= .'
A7?627?4'/<' @0' 1=2//45=' 7' 612 ' :4 .' ';A.' 7884A/2'' 1''
12/' </A912/<' 45A161@9/' 7' '4 ' 15<'>7 /' 45' 150' 612.1?/5 '
:.4A.' '.1.' @/' .79</5' 827?' 15<' 18 /2' ./' </ /2?451 475'
78' ./' 91' ') 15<' '7' ./+<10# .1 ' @/872/' 977C/<' A97;<0#
A9/12/<';6# 15<' :/';51???7;'90' :/5 ' 7' :72C' 1'';'';19#
:4 .'>7 45=' .15C'' 7' ./' J;//5'872' ./2' ?7' '=21A47;''
'6//A.# 15<' 15' 1<<2/''' 7' 1'';2/' ./2' :/' :499' <7' 199' :/'
A15' 7' 6/28/A ' ./' 5475' 1 ' .7?/# 15<' A1220' 75' ./' :12'
1@271<' :4 .'>4=7;2 ' ./12'827?' 199'.15<'' .1 ' ./'94 9/'
72<' 15</>4 /' 4'' 1' .4=.90' 627?4'45=' A.49<' 1<0'
55/'4'' '7' =27 :5' '' .7;9<' 57 ' .1>/' C57 :5' ./2' .1<' ./'
57 ' @//5' :4 .' ?0' 1<0 ' 2' 7AC945= 75' /99'' ?/' ./'&
91 /90' 9/8 ' 199' ./' 2/' ' 78' 07;2' 81?490' >/20' :/99' 1 ' '' 4?B'
@79 75# 15<' D745'' :4 .' ?/'45' ./' /5</2' 78' 7;2' '/2>4A/''
7' 07;2' 72<'9;6)15<' 1'.1660' ?// 45=' :4 .' 07;' ./2/

15<' '67C/' >/20' 912=/9O# 15<' ./0' '10' :/99# 75' /1A.' '4</#
./' 2/' ' 78' ./' 7;'/' 2/?14545=' '49/5 ' 872' :7' .7;2'#
15<' =4>45=' 15' 7@94=45=' 1 /5 475' 7' ./42' 5/:' @2/ .2/5 '
./' ?1D724 0' 166/12/<' 7' @/' '=2/1 ' 872' <4''79>45=' ./'
62/''/5 ' 24>0' 7;5A49# .1 ' ./2/' :1'' 57' <4>4'475' ;675'
4 ' ' ./12' ./' 12=;?/5 '' 75' /1A.' '4</' :/2/'1'' 87997:' (
.7'/' :.7' :/2/' 872' A75 45;45=' ./' 24>0' 7;5A49' <4<
57 ' 62767'/# 4 ' 872' />/2# @;' 7590' <;245=' ./' 62/''/5 '
D;5A ;2/' 78' 188142'# >.49/' ./' ?45<'' 78' ./' 6/769/' :/2/'
;5'/ 9/<# 15<' 57 ' 19 7=/ ./2' 2/A75A49/<' 7' $4/' 5475 '
./0' '14<' ./' A7?? 75' /5/?0' :/2/' :1 A9445=' 199' 76672F
;54 4/'' 7' 1C/' ./42' 1<>15 1=/' 78' ./' ?4';5</2' 15<45='
.1 ' 2/4=5/<' 45' 612 ' 78' ./' 51 475# 15<' .1 ' ./2/872/' 4 '
''//?/<1@'79; /90' 5/A/''120' 7' C//6';6'';A.' 15' 1; .724 0'
;675' ./' '67 '1'' ?4=. ' 7>/21:/' 1 ' ;2@;9/5 ' '6424 '# 15<
J;1'.' 150' A7?? 7 475' 45' 4 '' 842'' @42 . ' ./' 7 ./2' '4</'
c;2=/<' .1 # 48' ./' 24>0' 7;5A49' :/2/' A75 45;/<# 4 ' :7;9<
2/ ;25' 7' ./' 24 4'.' 612.1?/5 ' 872 0B84>/' 25/?@/2'' .1 '
:7;9<' 199' .1>/' @;' 75/' :4 ')15<# 57 +>4 .' 15<45=' 94/2/'
:1'' 57' <15=/2' <;245=' ./' 62/''/5 ' ?454' 20# 15<' ./' :499'
:7;9<' @/' ;25/<' 7' ./'=77<' 78' ./' 6;@94A# 4 ' ?4=. ' @/'
1' =2/1 ' 45A75>/54/5A/' 7' .1>/' ';A.' 1' </1<' :/4=. ' 1 '
75' 75/' '4< /' ' :1'' 8;2 ./2' 1<</<# .1 ' 48' ./' A7;5A49'
:1'' 57 ' <4''79>/<' 1 ' 62/''/5 # ./2/' :74<<' @/' =2/1 /2'
<4884A;9 0' 7' <7' 4 ' ./2/18 /2# '45A/# 45' 1 ' 627@1@494 0' ./'
872 0B84>/' ?//?@/2'' .1 ' :7;9<' @/' 2/ ;25/<' 7' ./' 5/O '
612941?/5 ' :7;9<' @/' ;5154?7;240' 1=145'' 4 ' .4'' 4''
:.1 ' :/' ./12' 7;' 78' ./' 7;'/' :1'' ./' ?7'' /'' /5 419'
612 ' 78' ./' A75 27>/2'0# :.4A.# 872' :15 ' 78' 7 ./2' 5/:'#
' ?1C/' @79<' 7' 27;@9/' 07;2' 72<'.46' :4 .

H' ' 1?# ?0' 72<#

H' 7;2' 72<'.46&'' ?7'' 7@/<4/5 # .;?@9/' '/2>15 #

' + '

4 .' ./' 5/O ' 0/12# :/' 8199' 1=145' 45 7' A7?6150' :4 .'
/ /2@727;=.' 0'A7;21=/# 19/5 #15<'.'1660' /25'/24 0 * '
1'' .4'' /5/?4/'' A199/<' ./' :4'/' 15<' @2499415 ' 1;<1A4 0

’./‘4’‘’7?/4?/’‘A199/<#:1’‘;5<7;@/<90‘./‘ 7’’1‘78‘ 76/)‘/>/20‘.;/‘./‘:24/’‘45‘.1‘?1 /2‘4’‘166 A1@9/‘ 7‘./‘ ;A./’’‘78‘ ;AC45=.1?’.42/# 15<‘57‘7‘./‘ ;A./’’‘78‘ 129@727;=.

./‘<;C/‘57 4A/<‘45‘.4’‘9/ /2‘.1<‘@;‘75/‘’;AA/’’72# 15<‘’;A.‘78‘$7.5‘./884/9<&’‘/’1/‘1’‘<4<‘57‘=7‘@0‘:499‘ 7‘.4’‘51;219‘’75# 42‘ 94129/’‘ /2@/2#61’’/<‘1‘A/5;20‘ 91 /2# 18 /2‘?;A.‘1<>/24’/?/5‘872‘15‘./42# 7‘:7‘24’.‘ 91<4/’#’4’ /2’#51?/<‘ 19’.

8‘./‘ 129‘78‘ 7A./’ /2‘./2/‘57 4A/<#’7?/‘1AA7;5‘ .1’‘@//5‘ 192/1<0‘=4>/5‘ /‘:1’‘./‘842’‘78‘./‘:7‘ 0</’‘:.7‘@72/‘.1‘4 9/#18 /2‘4‘.1<‘@//5‘’;AA/’’4>/90‘ :725‘@0‘75/‘ 122# 15<‘.2//‘ D9?7 ’

‘A’ ‘ ‘ ‘

‘ ‘ * + ./‘ 7;’/‘78‘ 72<’‘12/‘1‘62/’/5‘75‘ ?0‘ 72<‘ / /2@727;=.&’‘/O6/<4 475# 75‘:.4A.‘./0‘.1>/‘ ’1‘>/20‘91/‘:7‘<10’‘’;AA/’’4>/90#@;‘27’/‘:4.7;‘ A7?45=‘ 7‘150‘2/’79; 475‘ .4’‘<10‘4‘4’‘72</2/<‘.1‘ ’/>/219‘616/2’‘2/91 45=‘ 7‘.1‘’;@D/A‘’.199‘@/‘2/1<‘ ‘ ./12‘./‘842’‘12 4A9/‘:.4A.‘?0‘ 72<‘’67C/‘7‘:1’‘./‘ 1C45=‘;6‘?75/0‘1‘’7‘=2/1‘15‘45/2/’#15<‘./‘ =745=‘45 7‘ 190‘872‘.1‘/5<‘:4.7;‘150‘A7?7?4’’475‘ 827?‘./2‘ 1D/’0‘ 4’‘ 72<’.46#.1’‘@//5‘/O 2/?/90‘ 975=‘45‘.4’‘’6//A./’‘75‘.1‘7AA1’475#15<‘’.7:’‘1‘?72/‘ .15‘72<45120‘=14/ 0‘45‘.4’‘@/.1>47;2#@7 .‘45‘./‘.7;’/‘ 15<‘7;‘78‘4#/>/2‘’45A/‘.4’‘188142‘.1’‘@//5‘45‘1=4 1 475‘ ‘<798B‘./12‘.1‘150‘78‘./‘ 72<’‘.1>/‘0/‘</A912/<‘./42‘ 7645475‘1=145’‘.4’‘ 72<’.46&’‘627A//<45=’‘45‘./‘.7;’/# .7;=.‘/57;=.‘.1’‘61’’/<‘./2/‘7‘’.7:‘.1‘./‘ ;C/‘ 78‘ 72?15@0# 72<‘ 7A./’/2# bA#12/‘:/99B:4’./2’‘7‘ .4’‘ 72<’.46&’‘A1;’/‘ ‘./12‘./‘ ;C/‘78‘ 129@727;=.‘ 0/’ /2<10#;675‘.4’‘ 72<’.46&’‘?1C45=‘15‘/OA;2’475‘45 7‘ ’7?/’7./2‘’;@D/A#45 4?1/<‘.1‘./‘.7;=.‘4‘:7;9<‘ @/‘872‘.4’‘ 72<’.46&’‘’/2>4A/‘ 7‘A9/12‘75/‘ 6745‘@/872/‘ ./‘627A//</<‘7‘157./2#15<‘.1‘./2/872/‘./‘@/94/>/<

#$%

.4'' 72<'.46 : 7;9< <7 : /99 7 /O69145 ./ ?7570 188142 842' # 15< ./5 =7 75 7 ./ 7 ./2 6745 '' ./ 72< 9 /1';2/2# ./0 '10# '67C/ 7 ./ '1?/ /88/A ; ./ ;C/ 78 72?15@0 15< 129 78 "7A./' /2 '14< .1 .4'' 72<'.46 57 @/45=1AA;'/< @/872/ ./ .7;'/# ./0 : /2/ 7@94=/< 7 .4?872 =4>45= ./?' '7 1?69/ 15 1AA7;5 78 ./ 6154'.' 12 1" ./ .1< <75/# 15< .1 ./ :1" 1 94@/2 0 $7 '6/1C 78 4 45 : .1 872?' ./ 69/1'/<' /' .199 '.72 90 '//' ./ 4'';/ 78 .4'' 188142

H 1?# ?0 72<# 07;2 72<'.46&" 7@/<4/5 .;?@9/' /2>15 #

+

FA*O>*-7 ! $%J G

27?=7''46 :/ ;25 7 @;'45/''') ?/2/90# .7 :/>/2# 7 2/A72< 15 1 /?6 7 /O /5< 7;2 21</# :.4A.' 8149/< 78 ;9 4?1 /'';AA/''# @; ' :.4A.'</'/2>/'" 7 @/'2/=4' /2/<(*

894 ('$15;140 3# , n

H 0 * .1>/ ./ .757;2 78 07;2 72<'.46&" 78 ./ 3 .'45' # ' ' '1?' /5 42/90 78 07;2 7645475 .1 57 .45=4" 7 @/ /O6/A /< 827?' ./ /6;@94A# 1 9/1'' 1" 7 150 /5 /245=45 7 ./ 199415A/# 572 ?;A.# 8/12# 1" 7 ./ 188142 78 A7??/2A/).7 :/>/2# .1 57 .45= ?10 @/ :15 45=75 ./ J;//5&" 612 # 1?' A7??15</< 7 '/5< 07;2 72<'.46 ./ /5A97'/< A760 78 1 <218 78 1 2/1 0 78 A7??/2A/ :.4A.' ./ ?/2A.15 " ./2/ .1>/ 62/612/<' @/.>/ ./2/ 12/ '7?/ .45="45 4 :.4A.' :4 57 @/'>/20 /1'0 7 7@ 145) @;' 07;2 72<'.46 :499 @/ ./ @/'' D;<=/ 78 .1 # :./5 07;' .1>/ 24/< ./42 45A.51 475

H 1?' 19:10'# :4 .' ./ =2/1 /'' 2/'6/A #

H 7;2 72<'.46&" ?7'' 7@/<4/5 '' /2>15 #

;

% !

& 9/ /2 12/ 7 <4>/2 484/ 45 . /42 A75 /5 #
. 1 7 1557 1 / . /? A7?69/ /90 : 7;9< ?1C/ `
. / A7?? /5 =2/1 90 45A2/1 / ;675 . / /O . /
87997 : 45=# 872 45 15A/# 21>/9 : 4</90 <488/2/5 : 10 #
. ; 45 57 <42/A 475 : 4 . 7; 45 /2/ (*

_A*O #% $%8
. / 7; / 78 72< . 1>/ 872 '7?/ 4?/
@//5 1C/5 ;6 : 4 . . / /O1?451 475 78 7??7<72/
" /22# : . 7 : 1 91 0/12 : 4 . 1 . 9/ 'J;1<275 45 . /
/ 5<4/ . / ?/2A.15 1AA; / .4? 78 .1>45=
5/=9/A /< 7 A75>70 . /42 21</ 45 . 7 / 612 '# 15< @O
. 1 ?/15 =4>/5 . / 2/5A. 15 76672 ;54 O 78 1C45=
827?; 1@7>/ # 75 . /O '10 . 1 . / 788/2/<
. /?A75>70 75 A75<4 475 . 1 . /O : 7;9< =4>/ .4? 1
';? 78 ?75/0# @; . /O 2/8;'45= 7 A7?/ ;6 7 .4
624A/ . / : 7;9< 57 =7 1975= : 4 . . /? . / J; / ' 475
: 1 6; : . / . /2 . / ?/2A.15 . 1< ?1</ =77< . /42
199/=1 475 1=145 .4?) 15< A1224/< 45 . / 18842?1 4>/
>1 7@ /2>/< 199 . / A7 A. @7<0 : /2/ 872 @245=45=
.4? 788# 15< 78 . / 5=. .# 7590 . / ;C/ 78 ;AC d
: 4 . . / 129 78 72245= 75 15< 1/2?1 . /5 . 7;9<
.1>/ 79< 07;2 72<. 46# . 1 . / 4 1 72 . 24 75
15=24<=/# . / 6/2'75 . 1 ?1</ .4 /'A16/ 18 /2 1
'/5 /5A/ 78 </1 . 61'' /< ;675 .4?# 872 . / ?;2</2 78
42$7 . 5 76/& '75# 4 1C/5 ;6 45 915</2'# 15< : 499 @/
215'?4 /< 7 0@;25

j#$#

H L .4'9/ /2 '.7;9<.1>/@//5'/5 7 07;2 72<'.46 75 24<10# @; : 1' ?4'914< 45 ./ ?1C45=;6 78 ./ 61AC/ M

H /@2;120 2< 5 .;2'<10 91' ./ 7;'/78 7?F ?75' :/2/ 45 1 8/2?/5 ;675 ./ 6154'. 188142'# 1 J;/' 475 @/45= ' 12 /<# .7:' ?150 78 ./ :/5 0B545/ .7;'15<# .1 : /2/ 1997 :/< 15< 627>4</< 872 @0 A 78 12941?/5 # :/2/ 45 6145 1 ./ @1 9/ 78 9?15K1 2 $7.5#:.7 :1' 57 62/612/< 872 ';A. 1 J;/' 475# <4< 57 # ./0 '10# ?1C/ 7; ?72/ .15 /4=. .7;'15<# ;675 :.4A. ./ :.79/ 612 0# 15< 1 8/ :78 ./ A7;5 20 .4='# @/=15 7 =27 : : 12? 42 $ 15?72/# ./12# :1' ./A.4/8 45 75/ '4</ 78 ./</@1 /# :.4A.# .7:/>/2# :1 A1224/< 1=145' ./?# 1 07;2 72<'.46 :499 '//# 424 ./ >7 /' 78 .1 <10 * .45C @0 /4=. //5 >74A/' ./ 8;2 ./2 A75'4</21 475 78 .1 188142 :1' 84O/< 7 .4' <10

H 4' 57 : 5/12 /5 7&A97AC 1 54=. # @; ./</@1 /4' 57 0/ 7>/2# .7;=. /12 199 .45='12/ 8;990 A9/12/< 7 ./'1 4'81A 475 78 ./ 7;'/

H 1?# ?0 72<# 07;2 72<'.46&' ?7' 7@/<4/5 15< ?7' .;?@9/' '/2>15 # H +

?10 @/1<</< ./2/# :4 .' 2/8/2/5A/ 7 ./ /' 5<4/'# 45 :.7'/ '/1' 7;2 ?/2A.15 ?/5 :/2/ 45 ';A. 82/J;/5 6/249# .1 @7 . 7;'/' 78 12.1?/5 914< @/872/ ./J;//5 ./42;5154547;' 7645475 .1 57 2/1 0 78 6/1A/ :7;9<B@245=.757;2 72 '18/ 0 7 .4' A7;5 20# 48 ./ /' 5<4/'# 72 45<//< 48 6145 4 '/98# :/2/ 1997 :/< 7 2/?145 ;5</2 ./ 'A/6 2/ 78 ./ 7;2@75 ./2/F :4 .# 15 /5/2=/ 4A 627'/A; 475 78 ./ :12 :1' ;2=/5 90 2/A7??/5</<# 57 7 '10 45'4' /< 75

;# 48 15 7?/9/ / A1557 @/ ?1</ :4 .7; 1 @2/1CF 45= 78 /==# '7 :12 4' 57 7 @/ A1224/< 75 :4 .7; 1 '1A2484A/ 78 ?/5# 15< ./J;/' 475 78 .7:' ./'/ 12/ 7 @/ .1<# 1' <4'A;''/< 45 ./ 7;'/ 78 7??75'# 4' 62/ 490 2/1 /<@0 <<4'75

0>5

@//5 . /975=/2 45 27;@945= 07;2 72<'.46 :4 . 15 1AA7;5 78 4 / '/2<10 ./ 7;'/ :/2/ ;675 :10' 15< ?/15'#@; A1?/ 7 57 2/'79; 475# .1>45= 1 </'4=5 7 214'/ :/9>/ .;5<2/< .7;'15< 67;5<' 75 ./ 1' 5<41 7?6150#:.7:7;9<@/'@27;=. 7 57 ?72/ .15 1 ?499475 0/' /2<10 ./ @499 872 1@7.'.45+ ./ 24>0 7;5A49 15< /' 1@94'.45= $;'4A/' 78 /1A/# 45 A7 F 915<# 78 :.4A. .45C .1>/ 192/1<0 =4>/5 07;2 72<'.46 15 1AA7;5 #.1' 1 '91' ?1</'4 ' :10 .27;=. ./'97:/2 7;'/ ./ A7;2 ;==/< .12<# 1 ./'91' 2/1<45=# 7 =/ 1 2/624/>/' 872 ./ 24>0 7;5A49 7 ./ 5/O 6249 :/9>/?75 .'#@; :/2/' 7>/2@725/'@0 ./ '1?/' 612 0 .1 A1224/< ./'>7 /' 78 ./2/A2;4 ' 1=145' ./?# 7 :.4A. ./2/' :/2/' D745/< 42 $ $/CO9# ./ 7.A4 72B /5/219# 15<'/>/219 7 ./2'

H $

F A*O'#' $%O G

.1 J;/' 475 78 ./ A7 4'. 24>0 7O?A49 :1' 1 ?7' '/247;' 75/# 8;99 78 6/249# 15< :4 . ?;A. 7 @/ '14< 75 /4 ./2 '4</' ./ 5=94'. 15< A7 4'. 9/=4'F 91 ;2/' :/2/';54 /<#@; 1 ''/6121 / /O/A;4>/' 872 A7 F 915< :1' 97;<90 A199/< 872# 75 75/'.15<# 15< 7@' 451 /90 2/'4' /<# 75 ./ 7 ./2 ./ 7?? 75' 7;'/ :1' 2/'79; / 1=145' 4 # @0 1 912=/ ?1D724 0# 15< /J;1990 81>7;21@9/ 7 1 @499 /51A 45= .1 75/ 24>0 7;5A49 7590 '.7;9< .1>/ A7=54'15A/ 78 ./ 188142' 78 @7 . C45=<7?' ./ 7;2 15< 7;2 B612 0 ';6672 /< ./ 7667'4 /'>4/ :) @; ./@499 ;9 4?1 /90 61''/< ./ 72<'# .7;=. 7590 @0 ./ 51227 :?1D724 0 78 - 7 - 42 /72=/ 05= :1' 1?75= ./?7' 1A 4>/' 78 ./ ?/?@/2' :.7 /5</1>7;2/< 7 627A;2/ 1 ''/6121 / 24>0 7;5A49 45 A7 915<# 7 /O/A; / ./91:' :4 .45 .1 GC45=<7?# 15< .;' ?145 145# 1 9/1' # 15 166/1215A/' 78 45</6/5</5A/ 9 .7;=. 42 /72=/&' /O/2 475' :/2/

?1</ 45 G+145 ./0 :/2/ 57 ?1</ :4 .7; 2/A7?6/5A/ ./ 82//<7?78 ./ A4 0 78 <45@;2=.: 1 62/'/5 /< 7 .4?45 1 =79< @7O 1 ./ .15<' 78 42 1 24AC $7.5' 75 15< 05= : 1' 872 ./ ?7?/5 .149/< 1' ./ A.1?6475 78 A7 915<

7 : ./ J;/' 475 A1?/ 7 4'';/ 15< : 1' </A4</< 45 ./ 7;'/ 78 72<'# 4' 51221 /< @0 <<4'75 45 ./ 87997 : 45= 9/ /2 * +57 : 4 .7; 69/1'15 1<<4 47519 =7''46# 1AA72<45= 7 ./ ?155/2 78 ./ : 24 /2(*

_ 54 ;-- ,= ! $%J

* /' /2<10# ./ 188142 78 ./ A7 A.' 24>0 7;5A49 : 1' @/872/ ./ 7;'/ 78 72<'# 15< ./ J;/' 475 6; # : ./ ./2 4 ''.7;9< @/ <4''79>/< 75 ./ '' 78 10 5/O 72 78 A 7@/2 ./ ;C/' 78 4A.?75<# 218 75) ./ 129' 78 ''/O# 72'/ # O872<# ;5</2F 915<') 72<' 19481O# 7?/2'# 725 : 1994'# / A # : 4 .' 199 ./ @4'.76' /OA/6 : 7 L78 : .4A.' 45A./' /2 : 1' 75/M# : 4 .' 1 ' ./ 72< 7A./' /2&' 824/5<'# : /2/' 872 ./ 842' # : .7 ?1</ ;6 - # .7'/ 75 ./ 7 ./2 '4</ 1?7;5 F 45= @; ' 7 -') '7 .1 ' 4 ' : 1' A1224/< 872 1 <4''79; 475 75 ./ '' 10

H .2/ 12/ =2/1 2/672 '' 78 A.15=/' 15< 19 /21 475'# 1' ./2/ 12/ 19 : 10' 7 : 12<' ./ 91 /2 /5< 78 1 '/''475# />/20 75/ =4>45= &/?]M; 1' ./ :4'./'

H .4'' <10 @/45= ./ W;//5&' ++42 .<10# ./2/ .1' @//5 1 =2/1 166/1215A/ 1 " /5'45= 75# 15< : 499 @/ 1 =2/1 /2 .4'' />/545= /2 1D/' 0 <4< 57 A7?/ 7 7 : 5# 15< .1' 57 72</2/< 150 @199 72 A7?/<0# : .4A.' ./0 '10 : 499 @/ 2/'/2>/< 872 &' @42 .<10

H 1?# : 4 .' ./ =2/1 /' 2/'6/A # ?0 72<#

H 7;2 72<'.46&' ?7' 7@/<4/5 ''/2>15 #

+

./ '1?/ ';@D/A # : 4 .' ?72/ 676;912 ?1 /2'# 15< 15 1<?421@9/ 'C/ A.' 78 72< / /2@727;=.' 15< .4'' =10

1;<4/5A/'' 45' ./' 7;'/' 78' 72<'#4'' A75 145/<' 45' ./'
';@D745/<'9/ /2 * 78'5/:''(*

F P4 * A ' ,='! $%k

' ' * &'4''57'975='45A/' .1>/' @//5'1?75='
./'6/769/'78' '' 691t)/#@;' ./2/' 1?' '<7'5&'<7;@'
@;' 07;' .1>/':.1'61''/'' 827?'879C'' .1'12/'?72/'45'
./' '/A2/' .15' '62/ /5<')'7' .1'07;2' 72<'.46'4'' 7'
2/A/4>/' .4'';675' 157 ./2' 877 ' '';667'/' ./'6;@94A'
215'1A 475'' 78' 7;2' /51 /' :4 ' ';2624'/' 07;' 7' 2/1<'
./42'2/62/''/5 1 475'' 78' 7?'872A/'' 45' 6145#'7'<488/2/5'
827?' .1'1997:/<'@0' ./' 7>/25?/5'872' .1'/'1@F
94'.?/5' & 4'' A/2 145' ./2/'12/'=2/1'1997:15A/'' 7'@/'
?1</)'@;' ./' .45='@0'75/'612 0':1''</'4=5/<'872'15'
4?6;1 475' 75' ./' ?454'20# 15<' 157 ./2' 612 0' 57'
.45C45=' ./?'/9>/'' ;5</2' 150' 7@94=1 475' 7' /O/2'
./?'/9>/'' 45' 1' </8/5A/# ./' >7 /' :/5'@0' ';A.'1'
?1D724 0' .1' ./0':7;9<'57'' 15<'1'<4>4'475' /' /2F
<10'?1 /2'' :/5'1'' ?;A.'1=145''' ./' .;?7;2'78' ./'
7;2'45' 07;2' 72<'.46&'' .7;'/# 872' 1@7.'.45=' ./'
A7 A.' 24>0' 7;5A49# :./2/# 18 /2'1'975='</@1 /# ;675'
1'<4>4'475# >74A/'' :/2/' />/5# @;' @0' 627O4/'' 4' :1''
A1224/<'1=145''' ./' 7;5A49)'&4'' 2/?12C1@9/# .7;=.'
./' 7;2' ?1</' ./''/' /8872 '' 872' ./42' A75 45;15A/'
72<' ;5</2915<'';AC' 7' 72L+' 7?/2'' 15<' 19481O#
15<' ./' 612 0' .1'7667'/<'4' 7?/'6/769/'4?1=45/'
./''/' 7667'4 475'' 45' 612.1?/5' :499' 7@.=/' ./' 7;2'
?72/'./12 490' 7'/'67;''/'75/'72' &7 ./2' 612 O#15<'.76/'
188142'' :499' 1C/'1' ;25'872' ./' @/ /2' 27?' .4'#15<'
./'?72 19' 15 461 .0'@/ ://5' ./' 7''/A2/ 124/'#?150'
A75D/A ;2/' L129/MO'4'' 7'=4>/':10)15<#7'1'';2/'07;2'
72<'.46'07;'12/'57'7;'78' />/2075/&''?45<# ./2/'12/'
'7?/' .1' 19C' 07;'45 7' .4'' 691A/' ' :4'.' .4'' 2/672'
:1'' 75'1'=77<'87;5<1 475#872' ./' '1C/'78' .1>45='07;2'
72<'.46'1?75='';'# .7;=.' '@/./>/' 575/'78' 07;2'
824/5<'' 2/6/5' 07;2'=745='1@271<#15<' />/5' .7'/':.7

'//?/<?7'1=145'4 1C/57:7@/78 1<488/2/5 0>5
?45< ./ /01?451 475 78 72< / /2@727;=.&" A75F
<;A # ';667'/ 07;?10.1>/ ./12<# .1" >/20?;A.
/?6970/<./ 7;'/78 72<' <7/"57 '//?>/20
2/=;912 45 199 4 " A42A;?' 15A/'# 15< 166/12" 69145 .1
./ ?;A.<4'A7;21=/< ./ " 45= 78 6145 827?' 1C45=
./ 27; / 78 ! 19/5 41 45' /1< 78 1<24<# :.4A.' '45=90
=1>/ ./ 2/>/2'/ 7 7;2 188142") @;' 1" 7 ./ =2/1
A91?7;2 78 .4" <21:45= ?75/0:4 .7;'1; .724 0# &4"
.7;=.'./ :499D;' 480..5'/98 /@4<" 76/5E</8415A/#
15< 842/" >/20 .4AC 1 ./ ?454' 40# 15< '7?/4?/" :4 .
1 =77< </19 78 :4 # .1 6/769/ 78 /5 1 /5<4 1" ./0
<7 1 6910 * 872 /5 /2 145?/5 '2/?/?@/2 612 4A;9129O#
45 .4" 12=;?/5 " 872 A122045= 75 ./ :12# ./ 627>/<
./ 5/A/''4 0 78 4 # @/A1;'/1 .4" 4?/ :/ A15& 7@ 145
1 =77< 6/1A/) .1 & 4" ?72/ .757;21@9/ 872 1 51 475
7 6/24'.' 84=.45= .15 ';@?4 45=) 15<# 872 157 ./2
2/1'75 :.4A.'2/=12</< .4?'/98# .1 # 9/' ./ :12 91''1"
975= 1" 4 ':4 # ./ :1" A7584</5 4 ':7;9< @/ .4" 612 7
84=.'57 ?72/ 7;2 72<'.46 :499 /OA;'/ ?/ .1 '
.1>/ <21:5 ?0'/98 45 7 ./'/ 19/'' .1 6/2.16" 07;'
.1>/ ./12< 827?# 7 ./2 .15<'# @;' :./5 6/769/ 12/ 7
:24 / ./0 ?;' 845< '7?/ .45= 7 8499;6 ';2 A.4/8
<4>/2'475 4" 76/21'# :.4A.' 12/';5</2 =77< /5A7;21=/F
?/5 '(78 944" 07;809 .1>/ 15 1AA7;5 827?' ./ 91<4/'#
'7 .1 ' '.199 7590 1<< ?0 '/2>4A/'# 15< ./ 1''; 215A/
.1 ' 1?' 07;2 72<'.46&" ?7' 7@/<4/5 ''/2>15 #
H ') %

.1 1 214 727;'" A722/'675</5A/ :1" ?145 145/<
:4 .' 215A/# 827?' 129/0&" 7484A/# :1";5<7;@ /<# 15<
:1" 627>/< 45 ./ 6/2'75 78 75/ 78 .1 ?454' /2&"
A9/2C' * ./ 2/==' 199;</< 7 45 ./ 87997:45= 9/ /2
7?/8/:' .7;=. 129/0 .4?'/98 4?694A1 /<# @;' 2/==
1AJ;4 /< .4?' 78 199 612 4A461 475 45 ./ 2/1'75 * 1 ./
91'' ?7?/5 # :./5 ./ .4?'/98 :1" 45 ./ A12 1 0F
@;25# ./ 188142# .7:/>/2# :1" 1C/5 1<>15 1=/ 78 @0

#$

0>5

129@727;=94 15< 7<796.45 4 : 1 75/ 78 ./ A1;'/ 78 129/O& <7:58199# 15< 55/ :1 A7?6/99/< 7 A75F '/5 7 ./ <4'?4''19 78 ./2 ?454' /2 4 .4?:/5 $7.5# ./ /A2/ 120 78 12# :.7 .;' =1>/ =79</5 76672 ;54 0 7 7@/2 19679/ * ./ =2/1 ''1/'?15 15< ?454' /2 78 ./8; ;2/ 12A7;2 # 75 .1 7AA1'475 77# 97' ./ 725/OB /5/219'.46 8 7 ./2 A.15=/ 1 627'6/A 4>/# <<4'75 '6/1C A722/A 90 15< 78 199 .4 9/ /2 ./2/ 12/ >/20 8/: :.4A. </19 :4 . ?1 /2 78 =/5/219 45 /2/' ?72/ .166490 .15 .4'(*

H 2 * ./ 7;'/ 78 72<' .1>/ </6; /<# 1 4 4 '14<# @0 @1997 45= 1 A7?4 //' 78 '/>/5 972<'# 7 /O1?45/ 2/==# :.7 57: 94/ ;5</2 '/5 /5A/ 78 </1 .# .4 /O/A; 475 .1>45= @//5 2/'64 /< 872 '7?/ 4?/ ./'/ 972<' 12/# .45C# ./ ;C/ 78 7?/2'/ # ./ 129 78 .12 75 15< ;5</2915<# ./ 72<' 7?/2'# 7:5'B ./5<# 15<# .45C# ?0 72< 194810 . /12 ./0 12/ 7 /O1?45/ 94C/:4'/ 7 ./2 1 /A24?4519'# :.7 12/ 57: 45 ./ A;' 7<0 78 ?/''/5=/2' ./ A.4/8 4' 75/ !1./2/# :.7 .1' @//5 15 7:9/2# 15< @/45= /?6970/< ;5</2 .1 A797 ; @0 2 /A2/ 120 129/O# ./ 1@;'/<# 4 ''//?'# ./ 2;' ./ 6; 45 .4?# :.4A. :1 7 =/ :.1 45 /9.=/5A/ ./ A7;9< 78 ./ /5/?0# 15< 4' ';667'/< 7 .1>/ A1224/< 75 1 '/A2/ A722/'675</5A/ @/ ://5 ./ 2/5A. 7;2 15< '7?/ 78 ./42 824/5<' 45 .4' A7;5 20 ./ @499 872 /' 1@94'.45= D;' 4A/' 78 6/1A/# 15< <4''79>45= ./ 24>0 7;5A49 45 A7 915<# .1' 1 91' ?1</ 4 ' :10 .27;=. ./ 7;'/ 78 72<'# 18 /2 ?150 975= 15< :12?' </@1 /' 1?' 45872?/< .1 ./ ;C/' 78 75 27'/ 15< 7OB @727;=.# :4 .' ?0 72< ; ./2915< 15< 157 ./2 A7 A.' 6//2# :.7?' .1>/ 872=7 /5# :/2/ 872 61''45= ./ 499# 15< .1 ./ ;C/ 78 2=09/ 166/12/< ./ :12?/' 1=145' 4 4' 21A/# ./0 '10# ;'/< '7?/ :72<' .1 7AA1'475/< ./ 129 78 7A./' /2 7 61''1 =/5 9/ A/5';2/ ;675 &/?# 1' .7;=.' ./0 :/2/ 77 27;=.' 872 .1 691A/

;675 G:.4A.# ./0 '10# .4" 21A/ 79< .4? ./ :1" ';2F 4 .
624'/< 7 @/ A/5';2/< @0 1 6//2 :.7 :1" ./ ?7'
61''4751 / 45 944" <4'A7;2'/ 78 150 45 ./ :.79/ 7;'/
4" 72<'.46# ./0 '10# 7:5/< .1 ./ A7;9< 57 872@/12
</.>/2.4= .4" 7645475# :./5 ./ .7;=. ./=77< 78 ./
51 475 :1" A75A/25/< 45 4 # :4 .'7?/ :12? .# @; 1
./ '1?/ 4?/ 166/19/< 7 .1 7;'/ 48 />/2 ./ .1<
?1</ 150 2/89/A 475 75 150 75/ ?/?@/2 78 4 # 45 .4" 61'F
'475# .1" 57 @//5 C57:5# 6/2.16'# .1 ./ 7;'/
78 72<" :/2/ />/2 '7 <4>4</< 1" ./0 :/2/ 75 ./
A7 A. 188142 0 72< 2/1';2/2 '67C/ 1=145' 4 # 15<
?0 72< ;5</2915< 872 4 ./ 72< .15A/9972 '67C/
975= 15< :12?90 45 ?0 72< 2/1';2/2& 7645475# 15<
?0 72< 7?/2" 1" ?;A. 45 42/ A75 2120 72<"
1.810 15< .12 75 :/5 :4 .?0 72< 7?/2'#
72<" 7:5'./5< 15< "45=' 75 :4 ./ 7./2 ./
4'.76 78 1.'@;20 '67C/ >/20 ?;A. 1=145' ./ 021550
78 1 24>0 7;5A4 45 A7 915<# 15< :1" 87997:/< 45 .4"
>7 /# 44" 1?/ 45872?/<# @0 1 ./ @4'.76'# /OA/6 45F
A./' /2 15< O872< ./ 129 78 7A./' /2 :1" 872 ./
499# 15< ./ ;C/ 78 ;AC45=.1?/ 1=145' 4 5 '.72 #
4 977C" 1" 48 />/2075/ 45 944" =2/1 51 47519 A75A/25
:1" 2/'79>/< 7>7 /1" ./ .7;=. @/' 872 .4" A7;5 20#
G:4 .7; 150 2/=12< 7 612 0 ./2/ .1>/ 91 /90 @//5
?150 '/A2/ 8/2?/5 " 1@7; 1 5/: /A2/ 120 78 1 /
4" 4?67''4@9/ 7 / 07;2 72<'9446 ./ ;5/O6/A /<
<4884A;9 4/" :.4A. 07;2 ?454' 20 .1>/ ?/ G:4 . 45 ./
<4'?4''19 78 2 129/0) @; A15 /99 07;2 72<'.46#
:.1 4" 1 '/A2/ ./2/ 1 62/'/5 # .1 ./ J;//5 .1" D;'
57:</?15</< ./ '/19" 78 944?# 15< :499 =4>/'# ./?' 7
2 709/# :.7# 4 4" '14<# :499 @/ ';AA//</< 45 ./
2/1';20 @0 ./ 6/1C/2X
H 1?/07;2 72<'.46&" 7@/<4/5 '/2>15 #
+

5/ 78 ./ 2/1'751@9/ 788/5</2" 51?/< 45 ./ 1@7>/
9/ /2# !194/2/# 4" </'A24@/< 1" 15 H7:9/2 I !1./2/#

75 1=;‘ _872 725/0B /5/219# :947‘ 94/0‘ '10‘ :4 ‘ @/‘ ';AA//</<‘ @0‘ 2‘ 02/'‘ 78‘ 194'@;20# 1'‘ 794A4 72B‘ ‘ 0>5 /5/219

H ‘ 4'‘ '14<‘ 2‘ 129/0‘ 15<‘ @4'‘ 824/5<'‘ @1<‘ 914<‘ 'A./?/'‘ 7‘ ;5</2?45/‘ ?7'‘ 78‘ 7;2‘ =2/1‘ 7884A/2'‘ 78‘ 1 /# 15<‘ 6915‘ @/42‘ 7:5‘ 612 0‘ 45‘ @/‘ 277?‘ 78‘ &/?‘ 8‘ :/‘ ?10‘ @/@/>/‘ A7??75‘ 81?/# @/‘ @4?'/98‘ :1'‘ 7‘ @1>/‘ @//5‘ 1‘ 6//2‘ 15<‘ 72<‘ 2/1';2/2# @7;=@‘ 7./2'‘ '10# .1‘ 72<‘ 7A./' /2‘ :1''</'4=5/<‘ 872‘ .1‘ 67'‘ 2‘ 12A7;2‘ :1'‘ 7‘ @1>/‘ @//5‘ 72<‘ .15A/9972# 2‘ ‘ $7.5‘ /A2/ 120‘ 78‘ 1 /# ./£ ;C/‘ 78‘ ;AC45=.1?‘ 72<‘ 24>0‘ /19# / A# 15<‘ '7‘ 75‘ ‘ 4'# ‘ @/@/>/# >/20‘ A/2 145‘ .1‘ @/‘ ;C/‘ 78‘ 129@727;=.‘ 15<‘ 72<‘ 2/1';2/2‘ 2/8;'/<‘ 7‘ '4‘ 150‘ 975=/2‘ 45‘ 74?A49‘ :4 .‘ '7‘ :490‘ 1‘ '/A2/ 120# 15<‘ :7;9<‘ @1>/‘ 914<‘ <7:5‘ ./?'/9>/'‘ 48‘ ./‘ .1<‘ 57‘ @//5‘ 2/?7>/<‘ ‘ 4'‘ '14<‘ ./‘ .1<‘ .76/'‘ 78‘ :72C45=‘ .4'‘ /5<'‘ @0‘ ./‘ 1''4' 15A/‘ 78‘ 1‘ @/<A.1?@/2‘ :7?15# :.7?# 4‘ '//?'# ./‘ .1<‘ 87;5<‘ 7;‘ 7‘ @/‘ .4'‘ A7;'45‘ ‘ '.7;9<‘ 57‘ :24 /‘ :4 .‘ '7‘ ?;A.‘ 82//<7?‘ 7‘ 15075/‘ @;‘ 07;2‘ 72<'.46# :.7‘ ‘ C57:‘ :499‘ ?1C/‘ 57‘ :275=‘ ;'/‘ 78‘ 4# 15<‘ ‘ .45C‘ 4‘ :7;9<‘ @/‘ >/20‘ .12<‘ .1‘ 07;2‘ 72<'.46‘ '.7;9<‘ 57‘ @/‘ 1AJ;145 /<‘ :4 .‘ :.1‘ 4'‘ A7??75‘ 19C‘ 45‘ 07;2‘ 7:5‘ A7;5 20‘ .4'‘ 2/>79;475‘ .1'‘ 192/1<0‘ .1<‘ ./‘ =77</88/A‘ 7‘ ;54 /‘ 1@‘ 79<‘ 824/5<'‘ .1‘ :/2/‘ 819945=‘ 788‘ 827?‘ 75/‘ 157 ./2# 15<‘ 45‘ 199‘ 627@1@494 0‘ :4 ‘ 627<;A/‘ 1‘ =77<‘ 5/:‘ 612.1?/5

2(,=->*-7‘ ‘ $%k G

5<‘ 57:‘ 78‘ ./‘ 6.497'76.4A19‘ 691A/?15# 75/‘ :.7‘ ?10‘ .1>/‘ 691A/‘ 48‘ ./‘ 69/1'/'# 15<‘ A12/'‘ 57‘ 7‘ @/‘ 77‘ ?;A.‘ 69/1'/<‘ 7‘ .1>/‘ 4# 6/2.16'‘ ./‘ 87997:45=‘ 9/ /2‘ =4>/'‘ 1'‘ 62/ 0‘ 1‘ 64A;2/‘ 1'‘ A7;9<‘ :/@‘ @/‘ @?5/<‘ ‘ .1‘ ./‘ :24 /2‘ :1'‘ 57‘ 2/1990‘ 1504 7;'‘ 7‘ 24'/‘ 45‘ <4=54 0‘ 15<‘ >19;/‘ 78‘ 7884A/‘ 4'‘ ?1548/' # 57‘ 7590‘ 45‘ .4'‘ ;5188/A /< 75/# @;‘ 45‘ ./‘ 81?4@12‘ .7;'/.79<‘ 45A4</5 '‘ 45 7‘ :.4A.‘ ./‘ <276'# 1'‘ 48‘ @0‘ 62/8/2/5A/# 45‘ ?1C45=‘ ';A.‘ </ 149' ./‘ 91<0‘ 75./2?/2‘ 7‘ :.7?‘ '7?/‘ 672 475‘ 78‘ ./'/

@/ 6245 k< . / 7 ; ' / 78 7 ? ? 75 " 12/ ; 675 1 627D/A 0>5
78 </A4<45= 199 /9/A 475 " @0 @1997 45=# : . 4A . ' 7 ? / . 45C
? 10 @/ 1 " 62/D ; <4A419 7 . / 7 ; 2 ' 1 " 1 691A/B@499) @/F
'4</ " . 1 # 4 ' 4 " 1662/ . / 5 </ < . / /9/A 475 78 1 6/1C/2
? 10 . / 2/18 /2 @/ @27 ; = . ' 7 . / '1 ? / </A4'475# ; 59/ ' "
'7 ? / ? / . 7 < @/ 87 ; 5 < 872 62/ > /5 45= 4
H 5/ 78 . / =2/1 / ' ' 188142 " @/872/ . / 7 ; ' / 78
7 ? ? 75 " 1 ' 62/ ' /5 ' 4 " . / 499 872 /5A7 ; 21=45= 624>1F
/ /2 " 45 . / / ' ' 5<4/ '# : . 4A . ' : 1 " ' /5 ' &/ ? ' <7 : 5 827 ? '
. / 72< " '7 ? / 4 ? / '45A/ ' 0 72< 19481O 4 " 977C/ <
; 675 1 " . / A . 4/8 627 ? 7 /2 78B4 ' 4 " 72< ' . 46 15 < . 4 "
824/5< " 872 ? / < 4 ' : 4 . ' . / 1<>4A/ 15 < 1 ' '4' 15A/ 78 . /
1< ? 4219 " 15 < A . 4/8 A4 4K/5 " 78 75<75 ' ' 4 " 62767 ' / <
. 1 ' : . 1 />/2 624K/ " 12/ 1C/5 ' . 199 =7 /5 42/9O 7 . /
E1<>/5 ; 2/2 '# . 1 ' . /0 ' . 199 @/ D ; <=/ < 1 " 624K/ 72 57 ' 45
. / A7 ; 2 " 78 1< ? 4219 0 : 4 . 45 ' ; A . ' 1 5 ; ? @/2 78 <10 '#
15< . 1 ' . / 627 ' /A ; 475 78 150 ? 15& " 24=. ' 7 $44 " 624K/
' . 199 57 ' ' 15< . 4 ? ' 45 1@7>/ ' ' ; A . ' 1 ' ' ; ? ' ' 4 " 812 . /2
62767 ' / < . 1 ' . / ' . 46 " 78 ' ; A . ' 1<>/5 ; 2/2 " ' . 199 @/
/O/ ? 6 ' 827 ? ' / ? @12=7/ '# . 1 ' . /42 /J ; 461=/ ? 10 @/
: 7B . 42<' " 45 872/4=5/2 '# 15< . 1 ' : . 1 />/2 691A/ " 72
' / 9/ ? /5 " . /0 ' . 199 ? 1C/ . / ? ' /9>/ " ? 1 ' /2 " 78# ' . 199
2/ ? 145 45 . /42 . 15< " 18 /2 1 2/1 0 78 6/1A/ ' ' 1 ? #
: 4 . ' =2/1 ' 2/ '6/A # ? 0 72<# 07 ; 2 72<' 9446& " ? 7 ' '
7@/<4/5 ' 15< ? 7 ' ' . ; ? @9/ ' /2>15 #

H $ '

_ ' , = ' #% ' $%A G

. / 5/O ' 9/ /2# 75/ 78 <4697 ? 1 4A @ ; '45/ ' '# : 499 : /99
@/12 2/1<45=# @/872/ : / A7 ? / 7 . / ? ; '4A 15< '45=45=#
<21 ? 1 4'45= 15< A75 ' 2 ; A 45= 78 42 $7 . 5 ! 15@2 ; = .

' ,=' $ $%J

' . 1>/ . / . 757 ; 2 78 07 ; 2 72<' . 46& "
9/ /2 " 78 . / 2< 15< 3 . ' /@ # . 45C 4 & " 69145

. / 2 / F 57 . 76 / 'B 9 / 8 78 6 / 2' ; 1 < 45 = . / ! / 5 / 415 7 / 5 / 2 45 7 24 = . ? / 1' ; 2 / B : 4 . # . / 1994 / '# '7 . / 2 / & 57 . 45 = ? 72 / 7 @ / <75 / @ ; 7 20 . / 42 45A . 51 475 45 2 / 91 475 7 . / 2 / 1 0 78 A7 ? ? / 2A / # 15 < . 1 ? 72 / 7 '1 4 '80 . / ? / 2A . 15 '' E : . 7 / O6 / A 4 # . 15 827 ? 150 2 / 1 '75 75 / . 1 '' 7 / O6 / A 4 : 499 @ / 7 @ 145 / < 45A / . / 0 12 / 45 . 4 '' <4 '67 '4 475 # 07 ; 2 72 <' . 46 E : 499 9 / . / ? ; 5 </2' 15 < B . 1 # '45A / . / 0 : 499 57 ? 1C / ; ' / 78 . 4 '' 76672 ; 54 0 7 <7 . / ? ' / 9 > / '' = 77 <# 1 '' : / 99 1 '' . / 1994 / '# . / 0 54 ; ' / O6 / A 57 1 ''4 ' 15A / 827 ? ; 'B ; 675 1 = / 5 / 219 6 / 1A / # @ ; ? ; ' / O6 / A 7 # @ + 9 / 8 7 # ' . 48 872 . / ? ' / 9 > / ' '' 7 B : . 1 07 ; ? / 5 475 1 @ 7 ; . / & ; C / 78 15 11 # 07 ; 2 72 <' . 46 4 '' A / 2 14590 45 . / 24 = . 7 6 ; 4 ? 788 872 : / A15 & # <7 7 ; 2' / 9 > ` '' 57 =77 < @0 ? / << 945 = : 4 . 4 ?) B75 . / A75 2120 # ' . 7 ; 9 < =4 > / =2Y r 784 / 5A / 7 . / a 44CY 78 1 > 70 # & 75 # : . 7 ' / 1AA7 ; 5 : / 12 / 57 : ' '794A4 45 = 1 ! / 54A / # . 1 . / 15 ' . 7 ; 9 < @ / 6 ; @ . ' . / < 1 = 145 ' . / . / 2 # B : 4 ' . U : 4 . 199 ? 0 . / 12 . / { ; 2 78 ! / 54A / : 7 ; 9 < EA7 ? / 7 2 / 1 '75 45 2 / 91 475 7 . / ' / 5 < 45 = 245A / ; = / 5 / 7 6145) @ ; . 1 ? 1 / 2 '// ? '' 7 @ / 7 > / 2 # 15 < 12 / ? @ / 2 = . B ? 49 @ / . / ? 15

H 1 ? # : 4 . # = 2 / 1 2 / '6 / A # 07 ; 2 72 <' . 46 & ? 7 ' . ; ? @ 9 / 7 @ Y < 4 / ' '` 2 > 144 #

J !

A

26 B 76/21 4A</ 149': 7;9<9474@/;5:/9A7?/45 /9BB *
94=/5AY 7@/'/129#:/?10@/A75>45A/<827?'944' *
7:597>/'78?;'4A#15<'B612751=/'78./'76/21'1'
!/54A/'.4'E612751=/':1'A/9/@21/<@0'./B19415'
67/'#W5/'78':.7?E.;''H45A/5'/''I'./B1?@1''1<72'7.'
./'7AA1'475'78'.+'>4'4'#7'4@/'./1 2/'7''/5'7'75/'
78'./'?7''676;912'76/21''78'./'<10'(* &

3 '>*< 44,)),0I*' 3
';)';EO5-
5'
9=*;I4;*+m-, ?+-*5-1;0*-;5'1;'>*' *,?+I'
*'
: 0& ';
,))*' -*01,' -,+mEO*' 2 O
))*' ,-,0;??;9*' ,C>==);4*'1;' ,0,I;*
50').544*?;50,'4B,' '?;'n'C5-+*+,';0' ;4,0Io
1'1'A79 12').6/21'45'?;'4A1'45 4 791 1'
'& 0 ': 0 ; ' '<5 ' 7

0E);45' ',1' = '8*45015
B,'45)')*==-5'-*C;-'?*;' ':*)9,',';'45-;
>'0*+5'?,;'C,-'E,0,-*-'?+>C5-;['2
5)'+>5'6*)5-'45)'+>5'?*C,-'C-585015
>'*'?5?+,0,-'1.*)+,' 9=*?4;*+,';)'Cm015'
,;'0>565')4;1,'4;0+;'*)'4-;0'E);'*))5-;'$
>'*');' ,-;4;p 50+;';)'6,-1,';015-;' 3
50'+>*'C-,?,0I*';))>?+-,'> '1,)' 5015
>'*1'*-1>,' 9C-,?,',*';9;C5-+*)' *9*'1,++5'
5?+;'1*)' ;,)5'$,'5EO;'6;-+q'C;q'8;0*'
-,01,'85-I*'9*EE;5-'?+*015+;';0'C,++5
'+*0+;'C-,E;';)' *+5'*'+,'1,?+;0*
B,'>1,015' 0 '45)'+>5'?5)5'*?C,++5'
+;9*'*44-,?4;'/'?C),015-,'1'>0*' : 0
'% & '(')' '%% (' (%% * (' '& '+ ((& '
, %(-.' ? '? &

` 2

;25‘ :/‘ 57:‘ 7‘ 1‘ ?72/‘ ?1 /2B78B81A‘+45<4>4<;19‘
15<‘ 1‘ ?72/‘ 1?;'45=# 45‘ ./‘ 6/2'75‘ 78‘ !15@2;=.‘
/1</2'‘ 78‘ 4?5/0‘ C57:‘ .1‘ !15‘ :1'‘ 75/‘ 78‘ ./‘
842'‘ 7‘45 27<;A/‘45 7‘ 75<75‘ .1‘ 19415‘76/21‘ :.4A.‘
:48‘ 15<‘ <<4'75‘ ?/‘ :4 .‘ ';A.‘ /OJ;4'4 /‘ 24@19<20#
@;‘ :.4A.# 5/>/2 ./9/''# ./9<‘4 '‘=27;5<‘1=145''‘ .7' 49/‘
'J;4@'‘15<‘D/' '# 15<‘45‘'64 /‘78‘97=4A‘15<‘24<4A;9/‘.1'‘
/0 /5</<‘15<‘' 2/5= ./5/<‘4 '/98‘<7:5‘ 7‘7;2‘7:5‘<10 *‘
24>19945=# 15<‘872‘ ./‘4<9/2‘A91''/'‘';6/2'/<45=# 7;2‘7:5‘
?72/‘67/ 4A19‘ <21?1‘ !15‘@;49‘ ./‘ 6/21‘ 7;'/‘45‘
./‘ 10?12C/ * ./5‘2;90‘1‘?12C/ # 75‘ ./‘ :/'‘'C42‘
78‘ 75<75‘ 1'61245‘.1<‘@//5‘1‘0/12‘72‘ :7‘45‘ 5=F
915<# '45=45=‘1‘A75A/2 ' * /'6/A4199‘0‘.7'/‘1‘ 72C‘ 7;'/‘
*‘ ./‘ 1.15‘ ?;q4A# 1'‘ 799/0‘ 4@@/2‘ '10'# Hk' /1845=‘
45 7‘ 5=915<‘I‘ '97:90‘15<‘2;</90‘ 4=5721‘ & 645/‘.1<‘
@//5‘ '45=45=‘1‘ 2;20‘ 15/# 57‘ :4 .7;‘27:'‘ 5‘ ./‘
64 # :./2/‘1‘612 0‘45‘81>7;2‘78‘ $R 2''‘ 78 '# ./‘ 5=94'.‘
'45=/2# .1<‘1''/?@9/<‘ 7‘ .4'‘'<7:5‘ ./‘872/4=5‘ :7?15‘
15<‘';6672‘51 4>/‘ 19/5‘15<‘ ./‘51 4>/‘ 75=;/‘ !15‘
76/5/<‘ ./‘ W;//5&'‘ ./1 2/‘45‘ ./‘ 10?12C/ * 57‘
:4 .‘15‘76/21# @;‘ :4 .‘ .4'‘7:5‘@2499415‘A7?/<0‘78‘
V ./‘ 758/</21AO & '‘ ./‘.7;'/‘:1'‘@;49‘872‘'45=45=#
57‘872‘'6/1C45=# ./‘1;<4/5A/‘A7;9<‘ 57‘A1 A.‘ ./‘D/''‘
15<‘'612C9/‘78 ./‘<4197=;/‘ ./‘6910‘:1'‘>/20‘'275=90‘
A1' # .1>45=‘ 2''‘ 21A/=42<9/# 2''‘ 1220# 15<‘ 2''‘
72 /2‘45‘ ./‘8/?19/‘612 '# :4 .‘ /4=.# 7==/ # 15<‘
77 .‘45‘ ./‘?19/‘612 ')0/‘4‘7590‘166/12/<‘45‘ ./‘
@499'‘872‘'40‘ ';AA/''4>/‘54=. '# 15<‘:1'‘ ./5‘:4 .<21:5‘
45‘81>7;2‘78‘ ./‘9/='‘78‘ 75'4/;2‘</'‘ 12J;/ '‘15<‘ ./‘
?;'4A‘78‘ ;7575A454‘ :7‘0/12'‘18 /2‘ !15@2;=.‘76/5/<‘
./‘ W;//5&'‘ ./1 2/ * .7;=.‘ ./‘ 6/2872?15A/'‘ :/2/‘
78 /5‘<2799‘45‘ ./‘91''‘</=2//#@/45=‘612 90‘45‘ 19415#
612 90‘45‘ 5=94'.# 75‘1AA7;5‘78‘ ./‘1@'/5A/‘78‘ '45=/2'‘
:.7‘A7;9<‘'45=‘ 1.15 * ./‘6;@.A‘ 1' /‘.1<‘81' /5/<‘
75‘ ./‘57>/9‘ 15<‘</.A47;'‘872?‘78‘ <21?1 4A‘/5 /2 145F
?/5‘ 24 4A'‘?/9 /<‘ 7‘ ./‘872/4=5‘'02/5‘ <<4'75‘
.4?'/98‘A75</'A/5</<‘ 7‘ !24 /‘ 1‘ ?;'4A19‘ 64/A/‘75‘ ./

‘ 720‘ 78‘4+42‘ 7‘1?75<)‘ 15<‘ : ./5‘ ./‘ .1<‘ :24 /5‘ .4‘‘ /O #‘1557;5A/<‘ .4‘‘ : 75</28;9‘ 1‘ /‘45‘ ?;‘4A‘@0‘1@;‘45=‘ 4 .
./‘ ‘ 215=/‘ ?;‘4A415‘ : .7‘ .1<‘91 /90‘A7?/‘ 7‘ 75<75 * ‘ 75/‘H‘ 05.//2‘ 15</9#I‘1‘‘ ./‘A199/<‘.4?‘45‘A75 /?6 * ‘ 15<‘ ‘/ 45=‘ 910 75‘ 7‘ :24 /‘ ./‘ ‘A72/‘ℕ V‘ 7‘1?75<#&
1‘‘15‘76/21#.1<‘@;‘1‘6772‘‘;AA/‘‘ * 15<‘A24 4A‘‘91;=./<‘
1‘ ./‘151A.2754‘?‘78‘1‘2/8/2/5A/‘ 7‘ 2/5A.‘12 499/20‘45‘
./‘2/4=5‘78‘ /520‘ N

->?B,1‘=7‘+B,‘+B>O1,-‘58‘+B,‘ *>)

:1‘‘6/2.16‘‘1‘97‘‘945/‘827?‘V ./‘ 1?6145=5 &B‘ !15@2;=.‘
‘1:‘ .1‘872‘ 19415‘‘75=‘ 7‘ .1>/‘1‘A.15A/‘45‘ 75<75‘
./2/‘E?;‘‘@/‘ 1.15‘‘45=/2‘#15<‘:.49/‘2/614245=‘"4?B‘
@79 75‘./‘/5</1>7;2/<‘7‘45<;A/‘ ./‘=129#.4?‘/98‘1‘97>/2‘
15<‘61 275‘78‘ 19415‘?;‘4A‘15<‘ 1.15‘12 #‘7‘1‘‘4‘‘.4?‘
45‘627A;245=‘82/‘.‘‘2/5= .‘872‘.4‘‘ ./1 2/‘827?‘!/54A/‘
!19/5 454#‘1‘A75 219 7‘ :1‘‘ ./‘6245A4619‘?19/‘>74A/
./‘87947‘:.4=‘57 /‘827?‘!15@2;=.‘7‘ ./‘ 129‘78‘
15A./‘ /2‘2/8/2‘‘7‘ ./‘27:‘‘45‘ ./‘ ./1 2/‘#@/ ://5‘
./‘ </8/5</2‘‘78‘51 4>/‘15<‘872/4=5‘19/5 #15<‘ ./‘
5/A/‘‘4 0‘78‘=/ 45=‘7>/2‘‘7?/‘2/57:5/<‘19415‘‘?=/2‘#
48‘67‘‘4@9/‘ ./‘ ‘;6/2@‘ 1>194/2/‘ 4A7945‘7‘ 24?19<4#
A7??7590‘C57:5‘1‘‘ 4A7945‘4(*

‘ ‘ ‘ ‘ ‘

‘* ‘‘ ,=->*-7‘#"‘ $%k<

‘ ‘ 45 /5</<‘ 7‘ 27;@9/‘ 07;2‘ 72<‘.46‘
:4 .‘1‘975=‘9/ /2‘1@7;‘7;2‘76/21‘188142‘#@;‘ ‘.1>/‘57‘
4?/‘ 7B54=.#15<‘0/‘ ‘1?‘/5=1=/<‘@0‘627?4‘/‘‘57‘ 7‘
9/‘‘.6‘ 499‘‘67‘‘ ‘ ./2/872/‘7590‘1AJ;145‘07;2‘ 72<B‘
‘.46E .1‘1‘91‘‘ ‘=7‘ ./‘ ;C/‘78‘ 129@727;=.‘7‘6;‘
15‘/5<‘ 7‘ .4‘‘6910.7;‘/‘81A 475‘@0‘/5=1=45=‘ ./‘J;//5‘
7‘/O/2‘./2‘1; .724 0#@0‘ ./‘?/15‘‘78‘:.4A.‘ ./‘1A 72‘‘
12/‘199‘644‘;5</2‘ ./‘ 1 /5‘1‘ 7>/;‘ 12</5‘ .7;‘/#
15<‘ ./‘76/21‘‘12/‘/‘1@.‘./<‘1‘ ./‘ 10?12C/#7‘ ./‘
=/5/219‘94C45=‘78‘ ./‘:.79/‘ 7:5#15<‘@7 .‘=7‘75‘45‘1‘
>/20‘ ‘;AA/‘‘8;9‘ ?1?4/2#15<‘ :4 .7;‘ <4‘ ;2@45=‘75/‘
‘ ‘ >

157 ./2 .4'' '/ 9/?/5 69/1'/'' '7 :/99# .1 6/769/ 12/ 57:' '18/2 7 '//' 76/21'' A1224/< 7 1 =2/1 /2 6/28/A 475# 15<' 45 72</2 7 4 ./ 7:5 A20'' 7; 872 1 ?15 15<' :7?15 78 ./ 842'' 21 /E 7 @/ =7 1=145'' 5/O :45 /2 827?' 190) @; 1 ./ '1?/4 & 4?/ ./0 </A912/ 872 ./ 8; ;2/ 1=145'' '; @'A246 475'# 15<' .1>/B 57 A7?/ 45 7 150 944'' :45 /2 .1>/# ./2/872/# :4 94 '/>/219 7 @1AC ?/# 914<' @/872/ ?0 72<' 129@727;=. ./ 5/A/''4 0 ./2/4'' 872 ./ J;//5 7B@/ 1 ''~?/ /O6/5'/ 15<' .1>/ ';A. 15 15' :/2# @7 .827?' .4?' 15<' ?0%72<' 2/1';2/2# 1'' ?1C/'' ?/ :24 / .44 9/ `2 7 07;2 72<B ' .46# 7 1AJ;145 07;' .1 # 48 4A6945 4 15<' 15 4444 :849 A7?/ 7>/2 L?0 72<' 19481O /9945='D5/ .4'' ? 62545=' 07;2 72<'.46 >/20 ?;A. </'42/< ./0 '.74<<M# :499 >/5 ;2/ 1'' 812 1'' # # @/ ://5 L4/?# 7 @/ /4 ./2 <4>4</< /J;1990# 72 ?72/ 7 75/55<' 9/''' 7+157 ./2# 1'' 07;2 72<'.46 '.199 .45C 84 7 1<D;' :4 .' ./?# 48 07;' 69/1'/ 7 =4>/07;2'/98 ./ 27;@9/ 78 ?1C45=' ./ 1+//?/5 .4'' ?75/0 62767'/ 7 =4>/ ./5D 872 '45=45=' <;245=' ./'5/O ''/1'75# :.4A.# 1'' .45='' 12/' 57:' 2/=;91 /<# @/=45'' ./ .' 78 /6 /?@/2# 15<' /5<'' ./ # .' 78$;5/ ./' 76/21'4'' >/20 212/90 6/2872?/< 1@7>/ :4A/ 1 :://CD 15<' 45 ./ @/=4554 5=' 15<' 91 /2 612 78 ./ '/1'75 57 1@7>/ 75A/# '7 .1 ./42 91@7;2 :499 57 @/ =2/1 8 07;2 72<'.46 A7;9< /5=1=/ 872 64' 79/'' 72 7;4'B<&72'' 45' /1< 78 67;5<'# 4 :7;9< @/ '7 ?;A.' '1>/< 7 :7 78 07;2 .;?@9/ '/2>15 '# 2 /2 4'' 15<' ?0'/98# :/ @/45=' 57:' ./ '79/ 1<>/5F ;2/2'' 15<' ;5</2 1C/2'' 78 ./ 76/21) 872 .1>/ @7;=. 2 >45/0 J;4 /7; # 7590 6104 5=' .4?' 1'' ?151=/2 0 188142'' 12/' 199# .15C 7<' N 45' 1 ?;A.' ?72/' 627'6/27;'' ' 1 / .15 :./5' 07;2 72<'.46 9/8 75<75 ./12 490 975=' 7 '//' 07;2 62<'.46 75A/ 1=145 0 1<0 A7?/'' 7 7:5 7B?7227:' 75 ./2 :10 7 "4?@79 75# :./2/ </'4=5a 7 :14 ;675 ./2 '775 79/?15 4'' 57:' :4 .' ?/' 45 7:5# 15<' @0 4<';??/2 .76/' 199 :499 @/' A7>/2/< 45 G ?;' 9/1>/' 1 =2/1 </19 ?72/ ' :7;9< :24 /# @7 .' 78 @;49<45=# 15<' ?;'4A 15<

7 94/2 ?1 /2'# 499 157 ./2 67' # 872 .4'' : 499 @/ =75/ 45 .198Bp45B.7;2 4 1?07;2 72<'.46&'' ?7' 814 .8;9 15< 02#- #!'' #$!'' K = H ! 19/5 4?4''?4=. 0 /125/' : 4 .?/ 7 =/ 4A79454 7>/2# .7;=94'94/ C57 : '' ./ '7 ?;A./OA//<'' .4?) @; ./ : 7;9< 8145 '//E 76/21''897;24'.. /2/# 15< 4'' ?4=. 490 69/1'/< 0< . ./ A4089 2/1 ?/5 ./ ?// '' : 4 . I

E / '.199E?//' : 4 .' =7''4645=' !15@2;=.' 1=145) ?/15 : .49/' ./2/' 4'' 1' #?45=9/<'#'C/45' 8987?' ./ />/2B : /9A7?/' C15< 8 <<4'75' E ./ : 24 /2&'' 72 .7=216.0# >./5 </1..=' : 4 .' 51? '' 4'' 57' 19 : 10'' <4' 45=;4'./< @0' A722/A 5/'')' 15< ./2/872/' 4'' ./ 4</5 4 0' 78 ./ 1<0' H 4A.459+47876=.' I' 78 ./ 87997 : 45=' ?4''4>/' '7?/F : .1' <7;@ 8;9E' ' A1?47' 2/8/2 7' 1' 1<0' % (' & 1'' ./ >4'A7;5' 78 .1' 51?/ : 1'' 1' 07; .' 1@7;' 7' '/' 7;' 75' .4'' 21>/9'V : 4 94 1' ; 72)' 15< :/ '.199 ';@'/J;/5 90' ?// ' : 4 .' @7 .# 45' 1' 9/ /2' 827?' 74+' 15A./' /2 7' ./ ;C/' 78 75 1=; ./ ;A./'' 78 70@;2=.' : .7' 4'' ./2/' </'A24@/< 1'' .1>45=' 2/A7>/2/< 827?' ./' 87;9 <4'/1'/' : .4A.' : 1'' ./5' : 75' 7 1C/' /224@9/' 2/>/5=/' 75' @/1; 0# .1<' 57' @//5' 1' <;A./'' 1@7>/' /5' ?75 .')' ./ 129 78 70@;2=.' .1>45=' @//5' 1<>15A/< 7 ./' <;A19 4 9/' 7590' 45' ./' '6245=' 78 ./' 62/A/<45=' 0/12' ./' : 1'' ./' <1;=. /2 78 154/9 45A.# 129 78 45A./9'/1'15<' 7 45=.1?) 15< '. /' <4/< 45' , Q# 9/1>45=' 15' 7590' '75# ./2' '79/' 4'';/

F ,=->*-7 #" $%k<

* + ./ 1<0' 4A.45@727;=.' 4'' <15=/2F 7;'90' 499 78 ./' '?199B67O# ./ ;A./'' 78 70@727;=94' 4'' /5 42/90' 2/A7>/2/< 78B ./' '1 5/' <4' /?6/2 : 4 .7;' 150' 97'' 78 @/1; 0' ./ =10' 612' 78 ./ 7 : 5' 4'' 45' .4=.' /O6/A 1 475' 78 1' 5/ :' 76/21# .1' 4'' 7 ?1C/' 4 '

166/1215A/ 75 . ;2'<10 5/O B4'' 724=451990 19415#
12215=/< @0 .2//<488/2/5 451' /2'# ;7575A454 .1>45=
<75/ 75/ 1A 78 4 : 1'' 842' 78 199 </'4=5/< 872 1
624>1 / /5 /2 145?/5 1 12<4519 7@754&'# 15< 4''
215'91 /< 45 7 5=.'94 18 /2 ./ ?155/2 78 1?4991
./ 5/ :/;5;A.' .1'' @//5 .4''/< '7 '/>/2/90 .1 ./
<7/'' 57 45 /5< 7 1A 150 ?72/
H /D;' 57 :. /12 .1 ./ =2/1 </@1 /78 .4''<10
4'' /5</>/20?;A.' 7 ./'1 4'81A 475 78 ./ A7;2# .7&
?150 78 ./42 824/5<'' :/2/ >/20 1662/./5'4>/ 78 4
2 129/0 15< 12A7;2 @7 .'>7 /<1=145'' ./ 944='#
1'' <4< 2 15'/99# 15< 78 ./ A7;5 20 .4='# 7590
/ /2 "45=# 15< :7 ?72/' 2 $7.5 >7 /< 75
5/4 ./2 '4</ ./ ?1 /2 4'' '1 /< .;'' 45 ./ 45; /''
D;'' 57 :' A7?/ 7 .15<(* V ./ 7;'/ 77C 45 7 A75F
'4</21 475 ./ ?1 /2 7;A.45= ./ :12 45 6145) 15<
./ J;/' 475 @/45= 6;' .1 ./ </84A4/5A0 78 ./ 2776'E
45 6145 15< 72 ;=19# 1 ./ 4?/ 78 ./ @1 9/ 78
9?15K1# .1'' @//5 A.4/890 7AA1'475/< @0 ./ :15
78 4?/90 15< /88/A ;19 2/A2;4 '' @/45= '/5 .4 ./2# 4
61''/< 45 ./5/=1 4>/ /1'' ,-) 7/''
H V /'79>/< .1 ./ .15C'' 78 ./ 7;'/@/ =4>/5 7
872 1C45=?/1';2/'' 7 2/' 72/ ./ 1881;E'' 78 6145#
15< 872 627>4<45=872/4=5 2776''872 .1 ''/2>4A/ & .;''
:/5 ./ ?7' 4?672 15 <10 78 .4'' '/''475
H 1?# ?0 72<# 07;2 72<'.46&'' 7@/<4/5 ''/2>15 #
+

H 0 72< ;5</2915< 72</2'' ?/ 7 1AJ;145 2
79/ .1 .4'' 72<'.46 .1'' 2/A/4>/< .4'' 9/ /2 78 ./
- .'45' # I

57 ./2 9/ /2 827?' <<4'75 7 72< 15A./' /2
87997:'# 45 :944A.' 1'94 9/ 67. 4A19 45 24=;/ 78 ./ 4?/ 4''
'C/ A./< :4 .' 1'A9/>/2 ?45=.5= 78 </ 149 15<'<4'A2/ 475
./ 9/ /2# .7:/>/2# 5//<'' 57 45 27<;A 475 '6/1C''
872 4 '/98' 4'' 7590 5/A/''120 7 '10 .1 129/0&''
1<>/2'124/'' :/2/ A/2 14590 :72C45= .12< 872 .4'' 7>/2B

94?4 /<' 1' 61 /5 # 627@1@90# 5/>/2' 2/A/4>/<# ./' '4=5B' ?15;19' ./' 4 9/' /O642/<':4 .' ./' 7;5 /'"' 12=12/ /15:.49/# 72<' 7545='@0# :.7'/' K/19' 872' ./' 27 /' 15' A1;'/'=145/<' 872' .4?' .4"' 91'' A7275/ # :1"' 1' .79</2' 78' >1247;"' 7884A/"' 78' 57' =2/1' 6;@94A' 4?672 15A/# 78' :.4A.' 6/2.16"' ./' :1"' 57' '7' 627;<' 1"' ./' :1"' 78' ./' 97AC/' A75 14545='1' 64/A/' 78' "45=' 4 41?&"' A71' /OF 21A /<' 827?' ./' =;5'.7' :7;5<' ./' 2/A/4>/<' 1' ./# 705/# 15<' =4>/5' 7' ./' 1275'@0' ./' ?7512A.&"' 7:5' .15<' 99' .4'# .7 >/>/2# .1"' 57' '7' <4' 45=;4'./<' .4?' 1"' ./' 75/' 945/' 45' 76/# 45'2/8/2/5A/' 7' ./' </945J;/5' 42' 1911?# 45' :.4A.' ./' 67/' '10' *

B,' 5>?,';9C,*4B'B;9 ' 5O;OE?=7' B*-*OE>,?

7545='@0' :1"' @;' 1'<;' ?15' .4?'/98'Y .4"' 1 /B' 616/2' A75 14545=' 1' 2Y';?Y' 78' ./' 5=.'.' 6794AO' 78' 49941?' 15<' 55/# 62/'/5 "' 1"' 2/?12C1@9/' 1' '6/A4?/5' 78' ./' 45>79>/<# ./' 7@'A;2/# 15<' ./' 45A7?62/./5'4@9/# 1"' />/2' '62;5=' 827?' ./' ?7'' ?;<<9/<' 78'@214<'' 4C/' ?7'' <;99' ?/5# .7:/>/2# ./' .1 /<' .7'/' 78' @24 415' 612 '# /'6/A41990' 48' ./0' :/2/'.4"' 1<>/2'124/'' .;"' ./' .1 /<' 129/0# ./' H'@915<90' 2/'/2>/<' 0/' ' 4889O' <Y@75F 5142/' I' 129' 78' O872<# ./' 61 275' 78' 76/' 15<' :48 # :.7' .1<' @//5' 1' .4=';5</2' 49941?# 1' 720' ;5</2' 55/# 15<' :.7' :1"' ./' ';@D/A' 78' 6/2'/A;475';5</2' /72=/' ' 129/0' :1"' 75/' <10' 45872?/<' .1' 75F 45='@0' .1<' </A912/<' .1' ./' :7;9<' .1>/' .4"' ./1<' H' '1?' '7220' ' A1557' 2/ ;25' ./' A7?694?/5 #I' '14<' ./' 129' 78' O872<# H'872' ' :7;9<' 57' .1>/' .4'# 48' ./' :7;9<' =4>/' 4' 7' ?/ I

.4"' :1"' 1"' '/>/2/' 1"' ./' 2/?12C' ?1</# 1' 1' 91 /2' 6/247<' 45</!<# @0' 1<0' 7:5'./5<' 7' 72<' 1 .;2' ' H' .1>/' 42' 7@/2' 19679/&"' ./1<' 45' ?0' 67AC/ #I' ./' /OA914?/<' H' ./5# ?0' 72<#I' '14<' 1<0' 7:5'./5<# H ./' @/'' .45=' 07;' A15' <7' 4"' 7' 6;' 4' 75' 07;2' '.7;9</2' I

;' :/'.1' /5'@1AC' 7' 129/0# <<4'75# 15<' ?0' 72<

0>4;

* + .4 <10 @4/ A7??4 //78 72<'?1C/ 2/672 78 ./42 /01?451 475' 78 ./ 1 /A24?4519'#@;B @/94/>/ ?;'' 10 499 ./5/O 67'@/872/ ''.199@/ 1@9/ 7 =4>/ 07;2 72<'.46 150 1AA7;5 78 4 / 977C ;675 ./ </@1 / 78 91' ;/'<10# :.4A.' .1>/ .1< ./ .757;2 7 ?/5 475 7 07;2 72<'.46 192/1<0# 1' .1 :.4A.'.1' 84O/< 199 ?/5 45 ./42 6276/2 612 4/'# 15< .727;=.90 /' 1@94'./< ./ 62/'/5 ?454' 20 15F .76/ 15< 129 1224>/< >/20 162767' 7B =4>/ '7?/ 1AA7;5 78 ./ 6154'.'188142'# .1 :/2/ ./5'45'<4'6; /# 15< 4 4' '14< ./0 <4< 4 >/20 .15<'7?/90 7975/9 72<1;5 # 1 ./ /5< 78 .4' '6//A.#+.1< ./''/ :72<' * Ø 8 1 91 / ?7</' 'A./?/ .1< 1C/5 /88/A # :/ '.7;9< 5/4 ./2 .1>/ .1< 2776' 1@271< 572 =/5/219' 1 .7?/ & ' .4''A./?/4' ./ =2/1 ';@D/A 78 <4'A7;2'/ ./2/# ?;'' 1AJ;145 07;2 72<'.46 :4 .'7 ?;A.' 1' .1>/ ./12< 78 4 15< A15 =4>/ '7?/ A2/<4 7 1' .1>45= 4 827?' =77< .15<' ' '//?' ?0 72< 7A./' /2 15< 2 27?90 :/2/ 1C/5 57 A12/ 78 45 ./ 45 /5</< 627?7 475'# 15<# &'4' ';667'/<# :/2/ 57 45 ./ '/A2/ ./ 2/1';20# ./0''10# :1' 7 .1>/ @//5 45 A7??4''475# 15< [R 2 129/0 1 ./ ./1< 78 4 # 45 72</2 7 $41>/ 4 @27C/5 45 1' .72 4?/# 15< .4?'/98 7 .1>/ @//5 72< 4=.' 2/1'?&/2 78 2/1 24 145) 2 ' $7.5 15< ./ 129 1;9/ ' :/2/# 1' 4 4' '14<# 7 .1>/ @//5 /A2/ 124/' 78 1 /# 15< 12A7? 72< .15A/9972 42 $ 15?/2# 77# :1' 7 .1>/ A7?/ ?# @; ' 872=/ .4' 67' ./0 <4< 57 J;/' 475# 4 '//?'# @; ?0 72< 129@727;=.' :7;9< .1>/ 1A /< :4 .' ./?# 15< ./2/872/ .7;=. ./42 'A./?/ =77<# 499 .4' 21A/ 2/8;'/< 7 '4 150 975=/2 45 7;5A49 :4 .' ./ 91 / '/A2/ 120# 15< 1?BB A2/<4@90 45872?/< .1 ./ '1?/ 2/'79; 475 .1< @//5 1C/5 @0 ./ 72< 2/1';2/2# 4=.' /:12<# 24>0 /19# 2/'4</5 78 ./ 7;5A49# 72< .15A/9972# 15< ./'7 ./2 /A2/ 120 78 1 / 7:' .4' '7 ?;A.B 19C/<B78 'A./?/

#'!

627>/< 1@72 4>/# 15< A1?/ 7 94=. @/872/ 4 '' <10# 4'' ' 499 1 ?0' /20 # : 4 . / ; ?7' 2/'6/A # 07?(72<'.46&'' 7@/<4/5 ''/2>15 #

H $

H 0 2 79/'' ?/5 47545= ?0 9/ /2'' 57 @/45= <1 /< '7 78 /5# 815A0 ./ 977C'' 872 ./ <1 /1 ./ 76 78 ./?) 872 .45C A15&' @/ =;49 0 78 ';A.' 1 ?4' 1C/ '7 78 /5 &&

./ 1AA7?6 94'./< '/A2/ 120# .7 :/>/2# .7;=.' 78 /5 =;49 0 78 .4'' ?4' 1C/# 4'' 57 ''7 45 .4'' 5/O '9/ /2 * 1 <7A;F ?/5 ' :.4A.' =4>/'' 1 8142 </'A246 475 78 612 4/'' 15< 627'F 6/A '' =/5/2199O ' ./ 72< 4>/2'' ?/5 475/< 45 .4'' 9/ /2 :1'' 4A.12< 1>1=/# ./ 87;2 .' 15< 91'' @; ' 75/ 78 .1 ' 81?49O :.7 ./9< ./ /129&'' 4 9/# :.4A.' .1< @/F 975=/< 7 ./ 81 ./2B45B91 :' L 77<>499/M 78 <:12< ! ' ./ @1275419 4 9/ 57 :' @725/ @O 72< L 4 M 4>/2'' 4'' '</24>/< .27;=.' ?12241=/ 78 15 15A/' 72 :4 . ./ 1;5 ' 78 ./ 972< 51?/< @/97 :' (*

_ *-4B # $%k

H ./ '/''475 78 12941?/5 ' <21 :45= 5/12 1 A75F A9;'475# 1 =2/1 ' ?150 ?/?@/2'' 12/ =75/ 45 7 ./ A7;5 20 ' ./ :7 ?145 188142'' @/872/ ./?' 1 ' 62/'/5 ' 12/ ./ ?/24A15 @499# 15< ./ @499 '/5 ' ./?' <7:5 827?' ./ 72<'' 45 2/91 475# 7 ./ ' 1 ; /'' 57 :' 45 872A/ 45 A1 ./<219 A.;2A./'# 45 @7 .' 78 :.4A.' 4 ' 4'' .7;=.' ./2/ :199 @/ ?1</ '/>/219 1?/5<?/5 ' ' .4'' 91'' 188142 '//?'' 7 @/ ?1</ 1 612 0 A1;'/ ' ./2/ :1'' 1 :12?' </@1 /' 75 4 ' >/20 91 /90 ' ./ ?151=/2'' 75 75/ '4</ :/2/ 2 129/0# 42 $ ' 15?/2# 2 27?90# 2 12A7;2 # 15< ' $7.5) 75 ./7 ./2 :/2/ / /2 "45=# 42 $ ' $/C09# 42 $ ' 75 1=;# 42 $ ' 12C/2# 15< 6/5A/2 7:6/2 ' ./ 91'' A1224/< ./42 6745 '@O ' >7 /') @; ' ./ ''/1'75 78 ./ 0/12 <21 :45= ./ 91 :0/2'' 788 7 ./42

; #'$

A42A;4 '# 84 4 8/12/ 94/ ';6/24724 0 4610 57 @/ C/6 ;6 O>4;
45 ./ 5/O </@1 / ./ <4'6; / /5<'# 7 ./ *16*04;OE
78 ./ 67:/2 78 ./ @4'.76'# :.4A. ./ 944= 612 0
/'67;'/ ./ 72<' 78 ./ 7?? 4 // .1>/ 57 0/
2/672 /< ./42 /O1?451 475 78 ./+1 /A24?4519'# 845<45=
' 499 5/:?1 /2 78 /5J;424/') @; B4 4' '14< .1 188142E
:45 A7?/ 75 7B<10 ./ 2/5A. :499 A/2 14590 @/
C';2624'/< 7 845< ;' '7 :/ 62/612/< 872 ./42 45>1'475
;2 =215< 89// :499 @/ =745= 1:10 :4 . ./ 842' 8142B
:45<# 15< 1@7>/ ?/2A.15 '.46' 45 ./2 A75>70
./ '1?/ 4?/# :/ .76/ 7 ./12 />/20 <10 78 ./
1224>19 78 ./ 1' 5<41 '.46'&827?' 2/915<# :.4A. :499
@245= ;' 1@7; /5 ?/5 ?72/ 7:4 .' 15<45= 199
.4' 872A/ 45 ./'/ '/1'# 15< 7;2 89// 45 ./ /<4 /2F
215/15# 42 05= .1' 1 67:/28;9 'J;1<275 @/872/
;5J;/2J;/) :.4A. 4' <1490 2/45872A45=# 15< 4' 192/1<0
' 275= /57;=. 7 7667'/ 199 ./ 62/6121 475' 78 ./
/5/?0 45 .1 672 /57 975=/2 <7;@ 78 1 </'4=5
;675 A7 915< 15< ./ 245A/ 78 19/' @/45= 1 ./
./1< 78 4 # 15< 12/ >/20 .1660 45 1 ?454' 20 .1 A15
1C/ ';A. >4=727;' 15< '6//<0 ?/ .7< 872 7;2 </8/5A/
15< '/A;24 0 ./0 '10 7;(5/:1<?4219'# :.7 12/ 199
1A 4>/ ?/5# .1>/ >/40 ?;A. A75 24@; /< 7 ./ ?15545=
15< /J;46645= '7 ?150 78 ./ J;//5&' '.46' :4 .' ';A.
15 ;5;';19 /O6/<4 475
H 0 72< 4>/2' 4' 7 A7??15< 7;2 872A/' 45
1 197541# 15< @/ 1?@1''1<72# 1 ./ '1?/ 4?/# 7
"45= .129/' 2 72'/9/0 4' =745= 1:10 /5>70 7
./ '1?/ 691A/(.4' 6/2.16' 07;' B:499 57 ./12 827?
150 7 ./2 .15< 0/
H 0 /0/' @/45= 7;' 78 72</2# 1?' 872A/< 7 ?1C/
;'/ 78 157 ./2 .15<# 15< 1?# ?0 72<#
H 7;2 72<'.46&' 7@/<4/5 ''/2>15 #
+

05= :1' <24>/5 827?' @97AC1<45= ;5C42C @0
' 2/'' 78 :/1 ./2# 15< 72@45 '149/< ./5A/ :4 . /

! !

` `

' ./' 842' ' 9/ /2' 78' 7;2' 5/O ' '/24/'' A75 145'' 15' 45 /F 2/' 45='1AA7;5 ' 78' 1' 07;5=' ./42' 7' ./' H' 7;'/B' 78' 45A.45=@27C/#I' :.7' 5/>/2' A1?/' 7' .4'' 45./24 15A/# ./' 76/545=' 78' .4'' 5/:' A.16 /2' ?10' @/' 57 ' ;584 45=90' </>7 /<' 7' 1' @24/8' 2/>4/:' 78' .1 ' @215A.' 78' ./' 75F 1=;'# 872' .Y' =/5/197=4A19' 672 475' 78' :.4A.' ./' ?15;F 'A246 B@77C' 9/8 ' @0' /72=/' 75 1=;' .1'' @//5' 2/./<' 75 ?75=' ./' '75'' 78' 42' <:12<' 75 1=;# @0' .K1' 12245= 75# ?/5 475' .1'' @//5' ?1</' 78' 75/' 51?/<' 4<5/0 ' ./5' C54=.' 78' ./' '.42/' 872' ./' A7;5 0' 78' ;5 45=<75# ./' :1'' /5</2/<' ./' 71 .' 7' 94>/' 72' <4/' :4 .' ./' 129' 78' ''/O')@;' .4'' ./' 2/8;'/<# </A91245=' 1' ./' '1?/' 4?/' .1' ./' .1<' ./' C45=&'' 627A91?1 475' 45' .4'' 67AC/ # </57;5A45=' ./?' 1'' 214 72'' :.7' '.7;9<' 1C/' ';A.' 71 .')* :./2/;675' ./' :1'' /O6/99/<' ./' 7;'/' 42' 4<5/0' 75 1=;' ?1224/<' 1;9451' /60'# <1;=./2' 78' $7.5' /60'# 'J # 78' 1?@24<=/'.42/# 15<' 78' ./' 81?490' 78' :.4A.' ./' 81?7;'' <4124'' ' :1'' 1' ?/?@/2' 42' 4<5/0' 75 1=;# 45' 3 ,# 6;2A.1'/<' ./' 79<' .7;'/' 78' ./' 27?:/99'# 1' 45A.45@27C/# :.4A.' :1'' @;49' 45' ./' 2/4=5' 78' .K1@/ .# 75' ./' '4 /' 78' 1' /5/<4A 45/' 5;55/20# :.4A.' :1'' =215 /<# 1' ./' <4''79; 475' 78' ?751' 4A' /' 1F @94'.?/5 '# 7' .1' 81?490' ./' /' 1 /'' 2/?145' >/' /<' 7' .4'' <10' 45' 1' </'A/5<15' 78' 42' 4<5/0# @;' ./' 79<' .7;'/' :1'' </' 270/<' @0' 842/' 45' $15;120' Q)' ./' 84OF ;2/'' 15<' 8;254 ;2/' :/2/# .7:/>/2# '1>/<' ./' 5/:' ?15'475# /2/A /<' '775' 18 /2' ./' 8448/# :1'' ./' :72C' 78' <:12<' 972/

: 4 94 ? / 1@7>/ : 7 . 7 ; 2'# @/94/>/# A75A/2545= . / =2/1 / ' ? 1 /2'#78 ' 1 / 15< 45 /2/ ' I

;A. 45 /2>4/ : ' 82/J ; /5 90 77C 691A/ : 1' 75 ' ; A. 7AA1'475' . 1 72< 15< : 4A. 45872 ? /< . 4' C45'F ? 15 . 1 . / C45<5/ ' ' 78 . 129/ ' 7 . 4' 81 . /2 . 1< 7 ; A . /< . 4 ? # . / '75# : . /5 . / : 1' 45 . / ' /2>4A/ 78 . / 7 ? ? 75 : /19 . # 15< . 1 '4 ? 4912 8 / /945= ' 78 =21 4 ; </ . 1< 45< ; A/< . 4 ? . / ? 72/ 2/1<490 7 1<76 . / A1 ; ' / 78 . 129/ ' . /5 4A . 12< 27 ? : /99 : 1' 57 ? 451990 27 /A 72# 15< 15< : 4A.# . /5 42 < : 12< 75 1=; # : 1' 1@7 ; 7 627A/ /<# >4 . 1 51>19 A7 ? ? 15<# 7 . / 7 ; 5<# . / 91' : 72<' ; /2/< @0 . / '1497 7 . / ' ; AA/ ' '72 78 27 ? : /99 : /2/ 7 . / /4+A . 1 H . / ' . 7 ; 9< 2/D74A/ ? 72/ 7 ' / / . 4 ? 45 . 4' =21>/# 1 . 4' 2/ ; 25 . 7 ? /# . 15 . 1 . / ' . 7 ; 9< =4>/ : 10 7 ' ; A. . 45=' 1' : /2/ . /5 45 . 1 A . 45= I L15< 18 /2 : 12<' <4<# 2 ; 45 . 4 ? M . /E 27 /A 72 15' : /2/<# 1' : / . 1>/ 192/1<0 2/A72</<# . 1 # : . 1 />/2 /72=/ 75 1=; # ? 0 72< 27=. 499# $75/ '# 15< . / ' /A2/ 120 : 7 ; 9< . 1>/ . 4 ? <7# . / : 7 ; 9< <7 4 # @/ 4 : . 1 4 : 7 ; 9<

912/5<75 . 1< 57 8455/2 824/5< . 15 15< : 4A . # . / C45= 21 . /2 188/A 45= 7E @/ . 15 1A ; 1990 @/45= ' 7) @ ; . / /129 2 ; ' /< 57 ? 15 77 4 ? 694A4 90# /5 /2 14545= . / '/5 4 ? /5 ' ; @ ' /J ; /5 90 627A914 ? /< @0 7 ; ' ' /1 ; # . 1 4 : /2/ : /99 7 . >/ : 4 . />/20 824/5<# 2/ ? / ? @/245= . 1 . / ? 4=. 75/ <10 @/ 15 /5/ ? 0 . 129/ '# 5/>/2 . /9/4S'# $7>/< . 4 ?# 18 /2 . 4' /1'0 81' . 475) 15< 49/ J ; / /5# 48 ' . / 827 : 5/< 75 . 4' ' ; 6/482 ; 7 ; ' ? /1' ; 2/ 7 8 C45<5/ ' ' 7 . 4' 5/4=D4@7 ; 2# 1<0 1' 9/ ? 145/# 97>/< . 4 ? 77+ 872 . / '1C/ 78 . 4' ? ; '4A19 1 145 ? /5 '# : . 4A. 166/12 7 . 1>/ @ / /5 A75'4</21@9/ /60' A199' . 4 ? 1 H ' A/6 4A# I 1' 57 4A/< 1@7>/) @ ; . / 'A/6 4A4' ? ' / / ? ' 7 . 1>/ ? 154F 8/ ' /< 4 ' /98 45 1 <4' @/94/8 78 = . 7 ' ' * />/5 78 . / = . 7 ' 78 . / <2 ; ? ? /2 45 2 7 ? 6/ ' '75&' . 7 ; '/ 45 49 ' . 42/# : . 4A. : 1' . / @/ ' 1 ; . /5 4A1 /< ' 720 78 . / <10 5 ? 75/0B ? 1 /2' . / =2/1 /129 : 1' 5/=94=/5) 45F A ; 2245= </@ A12/9/ ' '90# 15< ' 499 >45= 45 ? 1=5484A/56/

7;5A/ 15< 1 .198# 15< ./ 4 1997 : /< .42 0# '7 E614< k 872 ./ 7;5A/ 15< .198 7>/2 : .1 ./ 4 7 .1>/ @; ' 215=/ 4 : 1 872 ?/ 7 '//: .1 1 A7?6150 78 '?199 8// : 1 A199/< ;675 @0 1 =2/1 ?150 7 610 ./?# : .4A.# 6/2A/4>/# 4 ./ ?155/2 .1 A7;2 4/2 <7 =/ ./42 /' 1 /' I

/: .45= A1;'/< ';A. 2/=2/ 7 /60 1 ./ ;5F 2/1'751@9/ /O6/5<4 ;2/ 78 ./ /129# /OA/6 ./ 874@9/ @0 : .4A. .1 /O6/5<4 ;2/ : 1 A75'4</21@90 45A2/1'/< 72< 15< : 4A. 614< '7?/ .7?1=/# 4 4 .7;=. # 7 . +) ./ A/2 14590 614< .1 15< ?72/ A7' 90 '/2>4A/ 7 1 .15<'7?/ 2' /AC/# 1 ./9'/1 H 1?' 1'.1?/<#I '10 .75/' /60'# H 7 '//?0 72<'7 =27''90 6910 ./ 8779# 7 .b 8945=45= 788 78 1 .757;2# 824/5<'# '/2>15 '# 15< />/20 .45= 15< 6/2'75 .1 4 =77<# :4 . .4 A122045= ./2 1@271<# 15< 691045= 75 .4 9; /';5</2 ./2 :45<7:# 15< 872 0 7 ./2 6772 '72<4< .45='# : .4A. 1?'=24/>/< 7 ./12) @; '@/./>/ 4 7 57 6;267'/ 872 ?/ 7 ?/<<9/ :4 .'4 #@; '9/ '4 =7 75 499 7< 9?4=. 0 15< .4 7:5 A75'A4/5A/ 15< .7;=. 78 .4 91<0 15< 81?490 <7 4 I

=19915 1<?4219 57 :B1B<10 :.7 '.7;9< 6910 9B ?1>4>1 @/5/1 .1 ./9'/1 @19A750 :7;9< @/ 1 '6/A 1A9/ 872 =7< 15< 45/5 /60 .7;=. 4 57 '//?90 '6/AF 1A9/ 45 .4 7:5 4?/# 15< <4< H ?/<<9/#I 1 ./ A199 4 # @0 9/ /2# 1 ./ A7' 78 .4 /O19 /< C45'?15& 81>7;2# @; :4 .'@/5/84 7 .4 2/6; 1 475 5 '64 / 78 H <4'F 69/1';2/ I 15< ?150 H '94=. 45='#I .4 45 /28/2/5A/ @0 9/ /2 :1 57 ;51>14945=) 15< ./ ;9 4?1 /90 '10 D7OF 8;990 45 .4 D7;2519 (H ./5 <4< ./12 .7:'./ 4 A7?/ 7 .4?'/98# 15< .1 .': .7990 9/8 ./9'/1 15< ./ '9; # 15< .1 '//./ <7 87997 :.4 @;'45/''# 15< @/A7?/ 45 @/ /2 2/6; / .15 @/872/# 1?' 2/D74A/< 7 '//4 # .7;=.'4 <7 A7' ?/ '7?/ <4'81>7;2 872 1 4?/ I B ./ A75>/2'475# 45<//<# :1 57 '7 ';<</5 572 '7 A7?69/ /# 572 '7 6/2?15/5 1 /60 A75A/4>/<) @; 4 A1?/ 45 <;/ 4?/) 15< A7?45= 1 1 :1'# 1 ./6/247< 45 J;/'B

475# 1‘ >42 ; /‘ 7590‘ 45‘ ./B/' 4?1 475‘ 78‘ ./‘ '?199/2‘ 672F
475‘ 78‘ '7A4/ 0‘ 45‘ =/5/219
./‘ 7;5 /'"‘ 78‘ 15<:4A.# 827?‘ :.7?‘ ./‘ /129‘
814 .9/''90‘ ;25/<‘ 872‘ 1:.49/‘ 7‘ 6910‘ ./‘ 9; /‘ @/5/1 .‘
4' 2/'"‘ /AC/&"‘ :45<7:# :1"‘ 15‘ 45A7?6121@9/‘ 91<0‘
./‘ :1"‘ ./‘ <1;=./2‘ 78‘ .1‘ 2‘ 2/:/‘ :.7‘ :1'E
A2/1 /<‘ 72<‘ 2/:/# 78‘ /5/# 1‘ ./‘ A72751 475‘ 78‘
.129/"‘ # 15<‘ :.7'/‘ 246/# A7>/2/<‘ :4 .‘ ?;' 12<#
:1"‘ 62757;5A/<‘ @0‘ /60"‘ 7‘ @/‘ H‘=77< I‘ ./‘ '1?/‘
:24 /2‘ 97'/"‘ 57‘ 76672 ;54 0‘ 78‘ /;97=4'45=‘ ./‘ H‘/O 2172F
<45120‘ 97>/‘ 15<‘ C45<5/'"‘ I‘ /O /5</<‘ 7‘ .4?‘ @0‘ 72<‘
2/:/N'#<1;=./2)* .7:‘ '../‘ ?1</‘ .4?‘ <245C‘ 972/5A/‘
:45/# 15<‘ =1>/‘ .4?‘ :7‘ @7 9/"‘ 872‘ .4"‘ :48/‘ /2‘ .7'F
64 194 0‘ 7:148<"‘ ./‘ <4124'‘ :1"‘ 75' 15‘ 5‘ $;5/‘
33 # :./5‘ 72<‘ 15<:4A.‘ :1"‘ <4545=‘ 1‘ ./‘ 2454 0‘
7;'/# 1"‘ ./U5/:9OB/9/A /<‘ 1' /2‘ 78‘ .1‘ A726721 475#
H‘ #I‘ '10"‘ /60'# H‘' 10/<‘ 15<‘ <45/<‘ :4 .‘ ?0‘ 1<0)‘ @;‘
18 /2‘ :/‘ :/2/‘ '/ # A7?/'"‘ 45‘ '7?/‘ 6/2'75"‘ 78‘ A75<4 475#
15<‘ '7‘ ./‘ A.49<2/5‘ 15<‘ ‘27'/# 15<‘ <45/<‘ @0‘ 7;2'/9>/'‘
99‘ ./‘ A94 <2/5‘ 15<‘ ‘ :/2/‘ >/40‘ ?/220# 15<‘ ./0‘
?4=.490‘ 875<‘ 78‘ ?/ I‘ ./‘ .757;2‘ 2/5</2/<‘ 7‘ ./‘
/129# 15<‘ ./‘ 94 9/‘ 1AA7;5‘ ./2/78‘ ?1</‘ 1"‘ 2/'6/A /<‘
./2'/98# 4"‘ 45<4A1 /<‘ 45‘ ./2‘ <7?/' 4A‘ /A757?0‘ 5‘ $2<0‘
33 # /60"‘ 2/A72<'"‘ .4"‘ <4545=‘ H :4 .‘ ?0‘ 1<0# :.7#
57:‘ ?0‘ 72<‘ 4"‘ =75/# 4"‘ A7?/‘ 7‘ ./2‘ 6772‘ .7;'/C//6F
45=‘ 1=145 I‘ .7'/‘ :/2/‘ <10"‘ :./5‘ /60"‘ A7;9<‘ 1C/‘ 1‘
A7;5/''&"‘ :7‘ <1;=./2"‘ 7‘ 12 .797?/:‘ 142# 7‘ '//‘
./‘ ?75C/0"‘ <15A/# 15<‘ =4>/‘ ./?‘ =91'"‘ @1;@9/"‘ 872‘
814245='J 15<‘ 18 /2‘ /'A72 45=‘ ./?‘ .7?/# '4‘ <7:5‘ @0‘
./‘ @/<B'4</‘ 78‘ ./‘ A7;5/'"‘ ./2'/98# 15<‘ ./12‘ .7:‘ .1‘
91<0# H :4 .‘ '4?6.A4 0‘ 15<‘ .12?9/''5/''#I :1"‘ 7‘ 62/F
>149‘ ;675‘ ./‘ C45=‘ 7‘ @/‘ =7<81 ./2‘ 7‘ ./2‘ 5/:90B@725#
@1@0‘ ./5# 48‘ ./‘ A7;5/'"‘ :1"‘ ?45<8;9‘ 78‘ ./‘ /129&"‘
1@9/‘ :./5‘ 1‘ .7?/# '../‘ :1"‘ 57‘ 9/''"‘ A12/8;9‘ 872‘ ./‘
=77<‘ 627>4'47545=‘ ./2/78‘ 75‘ '.46@712< * 78 /5‘ 1C45=‘
A7;5'/9‘ :4 .‘ 824/5<"‘ 7‘ .1‘ =77<‘ /5<J 15<‘ ?45=.5=‘
19C‘ 15/5‘ =77<‘ A.//2‘ :4 .‘ <4'A7;2'/"‘ 75‘ <4>454 0‘ 590
‘ ‘ `

45 . /2 972<&' 1@'/5A/# 4 ? 10 @/ 62/'; ?/<#&.1< ./ A7;5 /'' ';A.1 =;/' 1' 4' 45<4A1 /< 45 ./ 87997:45= /5 20(* H 45/<:4 .? 0 1<0#:./5 ./2 @27 ./2# O $7.5 2/:/# <45/< 1$'7 15< 1 '215=/ =/5 9/:7?15 <45/< 1 ./ 1@9/ 1' 1 '/2>15 78 ?0 1<0&'# @; C57:./2 57 '45A/;5</2' 15< .1 '. /4' A7?/ 1' .7;'/C//6/2 7 ?0 1<0# 15< 4' 1 ?1224/< :7?15 /60'&7:5 575B7884A419 <; 4/' 45 .4' .7;'/.79< :/2/ ?;9 481247;'# 827?' 1C45= ./ A.49<2/5 7; 7 :19C# 1AA7?615045= ?0 91<0 1 /257' /2 7:. /5 '. / :7;9< @;0 1 '1 45 6/ 4A71 1=145' ./ J;//5&' A7?45= ./5 ./ '.12/< 45 ./ A7584</5 419 A7??;?A1 475' 78 ./ A7;5 /''# :./ ./2 ./'/ 2/8/22/< 7 27019 =19915 24/' 1 A7;2 # 72 7 ?1251=/ '6/A;91 475' :4 .2/=12< 7 ./2 7:5 <1;=. /2' H 7 =77< 15< <4'A2//1 :7?15# I ./ 2/?12C'# H C57:57 45 ./ :729<N I 15< /60'#:1' 57 :4 .7; <4'A2/ 475 .4?'/98# 1' ./ ?1548/' /< 45 A75F <;A 45= ./ 97>/ 188142 @/ ://5 1<0 $/?4?1 75 1=;# ./ A7;5 /''&' <1;=. /2# 15< .1 ? 7' @1'.8;9 15< 2/'/2>/< 78 97>/2'# 2 12 /2/ # I 1'.1660 A75A9;'475 .49/ ./ 691=;/ :1' 21=45=# 15< :./5 6/769/ :/2/ 8/128;9 78 A7?45= 45 7 A75 1A >'< .'/1A. 7 ./2#& ./ :75</2 78 /60' 5//< 57 .1>/ @//5 '7 =2/1 1 ./ @1AC:12<5/'' 78 07;5= 2 12 /2/ 7 '19; / ./ 2/'/2>/< 1<0 $/?4?1# 72 />/5 7 7;A. ./2 .15< 7 ';A. 8/12# .7:/>/2# 45'642/< /60'# :.7 H C4''/< ./ @24</ 45 @/<# I :./5 ./2/ 814290 A1?/ 788 .1 '79/?5& ?12241=/# 1 :.4A. `` 07;5= 91<0 :1' H ?4=. 0 '1<# I :.4A. ./ <4124' .76/' H :1' 7590 ./2 =21>4 0 45 1'94 9/ =2/1 /2 </=2// .15 ;';19 I /. /5 =4>/' 1 62/ 0 64AF ;2/ 78 1 :/<<45= 45 1 57@9/ 81?490# <;245= 1 691=;/ 4?/(* H 7 7 <455/2# 15< >/20 ?/220 :/ :/2/) @; 45 ';A. 1 '7@/2 :10 1' 5/>/2 19?7' 150 .45= :1' 45 7 =2/1 81?4./') @; 4 :1' ?;A. @/ /2 8 /2 <.?/2# A7?F 6150 <4>4</) '7?/ 7 <455/2# '7?/ 7 19C 0 1<0 15< :4A. 15< ';6 7 '/ 9/ 1AA7;5 ' 15< 610 ./2 '7?/ ?75/0 5= . 7 ';66/2# 15< '7 7 19C (15<+

: .4A. ?+ .75=. : 1 ./ ?7' /O 2172<45120 .45=# 199 78 ; 7 6210/2'# 1 ;';19# 15< ./ 07;5= @24</ 15< @24</=277? 77) 15< '7# 18 /2 6210/2'# '7@/290 7 @/< I 5 /6 /?@/2 33-# /60 : 27 / 7 1<0 12 /2/ 1 9/ /2# 45 : .4A.# 18 /2 2/1 45= 78 ./ 1E: ;9 </>1' 1 475 ?1</ @0 ./ 691=;/# ./ 199;</ 7 .4 ?1 A.# 15< 1<<'(H / # 1<1?# .27;=. 7<& @9/''45=# 15< ./ =77< .;?7;2 =7 45 ?0 1 /5<15A/ ;675 7;2 91 / 1?7;2'# 07;2 6772 '/2>15 '4 45 1 6/28/A ' 1 / 78 ./19 .# 1'4 : /99 1 2/'79; 475 78 /?697045= 4 ' 1 07;2 1<0'.46 15< 81?490 '.199 845< : 72C 872 4 I

?75= 72< 15< : 4A.& C45'?/5 15< 7 ./2 ?/5 : .7 84=;2/< 1 ./ 7;2 ' 78 .129/ # 57 ' ./ 9/1' ' 57 1@9/ : 1 < : 12< 75 1=;# . ' '75 15< ./42 78 ./ '/A75< 72< 75 1=;# 78 7;=. 75 ' ?@4 47; 78 1 ''/1 ' 45 612.1?/5 # .4 C45'?15# 72< 15< : 4A.# .1< 1 /?6 /< 7 '/A;2/ 1' 45= 872 .4?# @; ' .1< 8149/<) 15< 872 ./ '/2>4A/ 2/5</2/< 45 .4 1 /546 # 15< 872 7 ./2 =77< 7884A/'# < : 12< 75 1=;' '//? 7 .1>/ @//5 @; ' 45<488/2/5 90 =21 /8;9 ' /'./9< ./ 67' ' 78 1' /2 78 ./ 72'/ 7 .129/ & A75'72 # 1 ./F 245/ 78 21=15K1 ' ; ' 78 .4 166745 ?/5 ' 127'/ 1 J;122/9 @/ : //5 75 1=;' 15< 72< ./' /284/9<# ./ W;//5& .1?@/29145 ' ./' /284/9< : 1 1 <15=/27; ?15 : 4 . : .7? 7 J;122/9# 872 ./ : 1 15 1AA7?694'./< <;/994' ' < : 12< 75 1=;# 5/>/2 ./9/''# A914?/< H 62/F A/</5A/ 45 1C45= ./ W;//5& ;66/2.15<# I 1 /60 /O62/''/ 4 # H 1@271< 7;' 78 ./ .7;'/ I ./ .1?F @/29145& A914? : 1 1997 : /<) 15<# 1 0/12 91 /2# ./ 1' /2 78 ./ 72'/ : 1 <4'?4''/< 827? .4 67' ' 45 ./ .7;'/.79< 78 ./ J;//5# 51?/90 45 10 33

7 : .4 />/5 ' A1?/ 1@7; 4 79< 45 ./ 616/2 78 : .4A. ./ 87997 : 45= 4 1 A760(*

H < : 12< 75 1=;# /9</2 @27 ./2 7 196.# ;C/ 78 75 1=;# : 1 1' /2 78 ./ 72'/ 7 W;//5 1 ./245/# 15< : 1 >/20 ?;A. 4 ' 97>/ : 4 . ./2# 15< .1< 57 7 ./2

612 4A;912 A12/ 78 ./42 6/2872?45= ./42 /O/2A4'/) .4
?0 72< <7 . '//? 7 .C/ 1 62/'/5 # 872 8/12 ./
;)) '6/5< .4 4?/ 1 7?/ D;' 1 . / :7;9< 1 75<75
/ .1 '7 ?;A. 948/ 15< '6424 '# 15< 4 '7 07;5=# .1 4
4 57 7 @/ /O6/A 45= =2/1 16694A1 475 45 ?1 /2
:.4A. <7 1 842' 2/J;42/ '7?/ 6145') 4 ?10 627>/
7 ./2:4'/# '7 .1 07;2 21A/ ?10 @/' D;<=/ 848? ./?#
1 19'7 8427? :.1 72< 45A.45@27C/ :24 /' '.7;9<
@/ =91< 7 A75 24@; / 150 .45= 7 .4 '/2>4A/ <7 57
1C/ .4? 7 @/ 78 ./ ' 275=/' A75' 4 ; 475# '7 A1557
/ 48 190# /'6/A41990 45 ';??/2# 4 6276/2 872 .4?
';667'/ 07; 45 /5< .4 ' 10 1@271< 7 @/ 872 '7?/ 4?/#
:.4A. '//? 7 ?/ 7 ?1C/ 798/5@; /9 ./ ?72/
6276/2 7B?7227RO ?0 72< '/ " 7; 872 7?/
@/=45 7 .45C 78 5=915<# 15< .76/ @0 ./ /5< 78 ';?F
?/2 7 @/ 1 .7?/# ./2/ @/45= 57 .45= 7 @/ <75/

H I

‘ ; ‘

?15‘ 62767'/'‘ @; ‘ 7<‘ <4'67'/'‘ ‘ : 1'‘ 848 /2‘ .4'‘ 1 /?6‘1‘45>1'475‘ .1‘ W#;//5‘ 55/‘842'‘ </57;5A/<‘ ./2‘@27 ./2‘@0‘ ./‘ 49/‘78‘>

‘ ‘ ‘

F *-4B?‘ $%$

‘ ‘ * 5‘ ;/'<10‘91'‘ ./‘ 72<'‘.1<‘@/872/‘ ./?‘ ./‘/O1?451 475‘78‘ 2/==‘15<‘ 912C/#1.1'‘!1./2/# ./‘ 2/1<45=‘ 78‘4‘ 1C45=‘ ;6‘ 5/1290‘87;2‘.7?'‘ .#/0‘ 18 /2:12<'‘2/8/22/<‘ ./‘A75'4</21 475‘78‘4‘ 7‘1‘A7??4F //‘78‘ ./‘ :.79/‘.7;'/‘ 2/==# 4‘ '//?'#.1<‘872?/290‘ </19‘45‘A946645=‘15<‘A74545=#15<‘45‘ ./‘0/12‘ 3 ,‘:1'‘ 24/<‘:4 .‘ .4'‘ :48/‘75‘ .1‘7AA1'475‘ ./‘91 /2‘ 77C‘ ./‘=;49‘;675‘./2‘15<‘69/1</<‘ ./2‘./19 .# 15<#18 /2‘ ./2‘</94>/20#:1'‘@;25‘)‘ ‘<75&‘./12‘ .1‘ 2/==‘A7;9<‘ A758/''‘150 .45=‘?1 /2419‘ /‘914<‘ .4'‘=;49‘;675‘.4'‘ =2/1‘5/A/''4 0# 15<‘'14<‘./‘.1<‘@//5‘/?6970/<‘@0‘ 2‘ 129/0‘1'‘1‘C45<‘78‘ '60‘45‘ A7 915<# 7‘=4>/‘ .4?‘45872F ?1 475‘827?‘ 4?/‘ 7‘ 4?/‘78‘ ./‘ ' /6'‘ .1‘ :/2/‘?1</‘ 45‘ ./‘;5475‘ !1./2/‘.1<‘@//5‘/?6970/<‘@0‘ 2‘ 129/0‘ 7‘@245=‘.4?‘45 /9.=/5A/‘827?‘ 215A/‘;5</2‘ ./‘62/ /5A/‘ 78‘15‘7:9/2‘ /‘A1224/<‘75‘1‘ ./‘'1?/‘4?/‘1‘A24?4519‘ A722/'675</5A/‘@/ ://5‘'/>/219‘ 75‘ .4'‘'4</‘ ./‘:1 /2# 15<‘45‘ ./‘ 7;2‘78‘ 215A/# @; ‘.7:‘812‘ .4'‘ :/5 # 15<‘ :./ ./2‘ @0‘150‘A7??4''475‘72‘A75 24>15A/‘827?‘150‘ ./5A/# 4'‘57:‘;5</2‘A75'4</21 475‘ 7;2‘ 72<'.46‘:499‘ '//‘@0‘0/' /2<10&'>7 /'‘ ./‘1912?‘ .1‘:/‘.1>/‘2/A/4>/<‘ 827?‘ ./‘ 7;2‘78‘ 215A/‘ 2‘ 1<7=15&'‘ 9/ /2'‘ ?/5 475‘ .1‘ ./‘ 245A/‘78‘ 19/'‘:1'‘45‘ ;5C42C‘2/1<0‘ 7‘/?@12C‘:4 .‘848 //5‘@1 1.75'# 15<‘ .1‘ ./‘ ;C/'‘ 78‘ /2:4AC‘15<‘ 249975‘:/2/‘ 7‘=7‘1975=‘:4 .‘ ./‘ /O6/<4 475# .1‘ ./0‘.1<‘@//5‘45>4 /<‘ 7>/2‘ @0‘'/>/219‘ A7 A.‘ 72<'# 15<‘627?4'/<‘ ./‘1''4' 15A/‘78‘199‘ ./42‘ 824/5<'‘ 15<‘ </6/5</5 ' ‘ />/219‘9/ /2'‘1<<# .1‘ ./‘ 2/5A.‘ 7;2‘.1<‘1''; 215A/'‘=4>/5‘ ./?‘ .1‘ ./‘ 1' 9/‘ 78‘ <45@;2=.‘''.72<<‘@/'6; ‘45 7‘ ./42‘.15<'‘75‘ ./‘842'‘ 1224>19‘78‘ ./‘872A/'# 15<‘ .1‘ ./2/‘12/‘1A ;1990‘'/>/219

5/12' 2/91 475'' 78' ./' 842' ' 81?494/'' 78' A7 415<' 57 :' 45'
215A/' 1'' .7' 1=/'' 7' ./' 2/5A.' C45=' 872' ./' 6/2F
872?15A/' 78' 12 4A9/'' 75' ./' A7 A.' '4</' ' 79<' 07;2'
72<'.46' 45' ?0' 91' '.7:' :/99' 62/612/<' :/' 12/' 872' ./'
A2;'.45=' ./'45 /5</<' 45>1'475# 15<' '.45C' ./2/' :15 ''
57 .45=' 7' ./''/ 945=' 78' ./';5475# .4'' /O6/<4 475'@/45='
./' 91' '/84@2' 78' ./' 612 0' .1' 7667'/<' ./';54 45=' 78'
./' :7' 51 475'' ' 872=7' 7' /99' 07;2' 72<'.46' .1'
./' ;C/' 78' 2=09/'=7/'' 872' A7 915<' 7B?7227:# 15<'
.1' ./'=7>/2572' 78' <45@;2=.' 1' 9/'4'' 192/1<0'=75/
H '1?'/>/2#:4.' ./'=2/1 /'' 2/'6/A #?0(72<#
H' 7;2' 72<'9446&'' 7@/<4/5'.;?@9/''/2>15 #
H$'

G H' ' 1C/' ./' 94@/2 0' 7' /5A9@'/'E45' 07;2' 72<'.46&''
61AC/' 1'9/ /2' 872' 7?/#:.4A.' '@/=' 07;2' 72<'.46&''
72</2'' 7' 872:12< I

./''; @D/A' 78' ./'45>1'475' 827?' 215A/'4'' 1=145' ./'
A.4/8' '169/' 78' 1'9/ /2' :.4A.# .7:/>/2# 4'' 57' >74<' 78'
./';'; 19' J;15 ;?' 78'=7''46' .27:5' 45'@0' ./':24 /2'(*

' ' '

H' 9' * 99' 7;2' 19C' 1' 62/''/5' ;25'';675' ./'
45 /5</<' 45>1'475# :.4A.' :/' 815A0' :499' '499' @/' A1224/<'
75# '45A/' ./'D74545=' 78' ./' 2/'' 'J;1<275' :4.' ./'89//'
.1' :1''@/872/' ;5J;/2J;/' .4'' 'J;1<275# ./0' '10#
A75'4' '' 78' '40' ?/5B78B:12' 15<' 84>/' 624>1 //2'' ;2' 1<F
?4219'' '10' .1' ./0' A1557' .45</2' ./'/5/?0' 827?'2/1A.F
45=' A7 915<# :.7' 12/# 1'' ' .1>/'./12<# 1@7;' :/5 0'
.7;2''@/872/' ./?')@;' :./ ./2' .1' :4 '';884A/' 872' ./'
</@12J;/?/5' 78' '7' ?150' 2776'' 15<' 64/A/'' 78' 12 499/20#
72' :./ ./2' ./' 2/5A.' :4 ' @/' :49945=' 7' '1A2484A/' 199B#
./42' 215'672 '' 15<' 24'C' ./42' ?/5B78B:12# 4''>/20' ?;A.'
<7;@ /<# /'6/A4199O' '45A/' ./' 5/:'' :/' .1>/' 2/A/4>/<'
.4'' ?72545=' 78' ./' 62/ /5</<' 245A/' 78' 19/'' 819945='
'4AC' 78' ./' ?/1'9/'' ./'91'' 5/:'' :/' .1>/' 827?' 42

B$' /1C/' '1D46' .1 ' ./' :1'' '149/<' :4 .' ./' =215<' 89//' 15<' 21</' ;5</2' .4'' A75>70)' @;' :/' 12/' 18214<' ./' A75 2120' :45<' .4'' <10' :499' <24>/' .4?' @1AC' /' .1>/' ' 275='2/672 '# 1'' ./2/' 19:10'' 12/' 1' ./' /5<' 78' 1' '/''475# .1' ./2/' :499' @/' =2/1' A.15=/'' 1' A7;2' 0' 72<' 12<4=15'.1'' @//5' 19C/<' 78' 872' '7?/' 4?/' 7' @/' 72<' .15A/9972# ./' 129' 78' /?@27C/' 7' @/' <?4219# 72<' .12 75' 7' @/' !4A/270' 78' 2/915<# 15<' 72<' 7?/2'' 2/'4</5' 78' ./' 7;5A49)' @;' :./ ./2' ./2/' @/' 150' =27;5<' 872' 1' .4'# 1'94 9/' 4?/' :499' '.7:';' H' '1?# :4 .'=2/1' 2/'6/A # 07;2' 72<'.46&'' 7@/<4/5' '/2>15 #

' + '

*-4B' ' $%8'G

./' 72<' 12<4=15' 51?/<' 1@7>/' :1'' ./' .42<' /129# 78' :.7?' ./' 62/'/5' 129' 12<4=15' 4'' ./' =2/1 B=215<F '75' ./' .42<' /129&'' 81?7;'# 72' 4581?7;'# 1;5' >1' 1' .4'' 4?/' ' 499' 94>45='./' :1'' .1' 55/' 1241# 7;5 /'' 78' .2/:'@;20# :.7# 45' ./' <4'=;4'/' 78' 1' 61=/# ./9<' ;AC45=.1?&'' .72'/# :.49/' ./' ?;2</2/<' ./2' .;'F @15<' 45' 1' <;/9

./' 129' 78' /?@27C/' :1'' ./' /4=.' /129' 78' ./' /2@/2' 945/# 15<' :1'' 1'' =91<' 7' @/' 72<' 4=.' <?4219' 1'' .4'' :48/' :1'' 1' ./' ';AA/'' 78' 7KK754 1' ./' 76/21' 72<' .12 75' 4'' ?72/' 81?7;'' 45' .4'' '75' .15' 45' .4?'/98# .1' '75' @/45=' .4.6# ;C/' 78' .12 75# ./' <4''79; /# 15<' :10:12<' 214 72# :.7' :1'' 7;91:/<' 872' .4'' 2/1'75' 45' , ' '' 812' 1'' ./' @12750' :1'' A75F A/25/<# ./'1 145</2' :1'' 214'/<' 45' Q -# 15<' ./' 4 9/' </A912/<' 7' @/' 45' 1@/015A/' 1?75=' ./' </'A/5<15 '' 78' ./' <1;=./2'' 78' ./' ;C/' 78' .12 75&'' =215<81 ./2' 451990# ./' 72<' 7?/2'# :.7'/'1<>15A/?/5' 7' ./' 62/'4</5AO' 78' ./' A7;5A49' 4'' 2;?7;2/<' 45' ./' 1@7>/' 57 6D+:1'' ./' =2/1' 15<' =77<' 972<' :.7' ;9 4?1 /90' ./A121/' OD2<' .15A/9972# 15<' 7' :.7?' <<4'75' </<4F A1 /<' ./' V 6/A 1 72& * 45' 1'' 2145' 78' /9/=15'615/=024A#

'7?/ 4?/'' J;145 # 'A12A/90 />/2 /O1==/21 /< * A/9/B2 @21 45= .4?1'1'6.497'76./2# ' 1 /'?15# 91 : 0/2# A.;2A.F ?15# 15< 61 247 * 57 872=/ 45= H 07;2 =2/1 .;?154 0 15< A7?691A/5A0 78 ?155/2'# 15< 78 ./ ';4B624'45= 4589;/5A/ :.4A. 4'' 6/A;9412 7 07;# 45 ?19<5= />/20 75/ :.7 A75>/2'/'' :4 .' 07;2 72<'.46 62/8/2 07;' 7 .4?'/98# :4 .7; .459<5= ./ 9/''' ?/15900 78 .4'' 7:5 19/5 ' I ; : /?;' ' ;25 827? <<4'75 /;97=4'45=# 7 ./ '/A2/ 120 2/672 45= />/5 '' 7 ./ 1?@1''1<72 1@271<

8 * ./ /5A97'/< 6245 '' :4 1AJ;145 07;2 72<'.46 :4 .' 199 .1 4'' 0/ A7?/ 7 7;2 C57:9/<=/ 78 ./ </'4=5/< 45>1'475 O62/''/'' 12/E /O6/A /< />/20 .7;2 78 ./ 8;2./2 ?7 475'' 78 ./ :7 89//'' / =/5/21990 977C 75 .4'' 627D/A 1'' 1'</'6/21 /6;'.'78 ./ 7;2 78 /2?145')872 ./0.1>/ 57 1@7>/ -# ?/5 75 @712<# 15< 12/ 87997:/< @0 1'89//' 78 <7;@9/ ./42 872A/ ;2 2776'' .1 12/ '14945= 827? '/5< :499 7; 5;?@/2 ./?48 ./0 915<# 15< ./ 2776'' :.4A. 12/ 72</2/< 7 ?12A. 7; 78 5=915<# 15< 7 @/ 215'672 /< 827? 2/915<# :4 94 .7'/ .1 12/ 192/1<0 45 72 . 24 145# :499 ?1C/ 15 12?0 78 1@7; # 877 15< # .72'/# :./2/1'' ./ /5/?0.1>/ 57 1 .72'/ 45 ./42# /?@12C?/5 ./ 7??75'' 0/' /2<10 61''/< 1 >7 / 7 ?1C/ =77< :.1 />/2 /O6/5'/'' ./2 1D/' 0 '.199 @/ 1 # 15< 7 610 :.1 />/2 2776'' './ '.199 .45C 84 7 214'/ 45 ./ 62/''/5 A75D;5A ;2/# :.4A. :/ .76/ :499 .1>/ 1 =77< 4589;/5A/ 75 199 ./ '/1 '' 78 :12# 15< ?1C/ ./ 45>1'475 >/20 ?;A. ;25 7U 7;2 1<>15 1=/ .1 612 78 0/' /2<10&'' >7 / :.4A. =915A/'' 75 ./ 91 / '/A2/ 120 :1'' 6; 45 +42 72 9/0&'' ?7 475S :.7 .C/:4'/ '67C/ 45A7?6121@90 :/99 45 ./ A75 27F >/2'0 1@7; ./ .;2A. ' 1 ;/'# 872 :.4A. 2/1'782 ./0 6; .4?'45 ./ A.142 .45C .1>/ .1< ./ .757;2 7 '//.448 :4 .' 07;2 72<'.46 1 124'

: 494A94 99/O A7;9< 57 A7?/ 1 # 872 ';'6/5<45= ./ /O/A; 475 78 2/==) .1 4 :1' 1@'79; /90 5/A/''120 .1 1 A24?45119 78 .1 51 ;2/ '.7;9<@/ /O/A; /<) .1 ./ 7:.5= 21</ '.7;9< 57 @/ 6/2?4 /< 75 150 62/F /5A/ :.1 '7/>/2) .1 ! 194/2/ .1< @//5 /5=1=/< 45 >/20 <15=/27;' A722/'675</5A4/'# 15< :1'@0 57 ?/15' 1 6276/2 6/2'75 7 @/ /5 2;' /< @0 ./ =7>/25?/5) :4 . ./ .C/ * 612 4A;912' :.4A.# ' ./12# 12/ 7 @/ <21BR>5 7;'1 9/5= .# 15< 2/62/'/5 /< 7 ./2 1D/' 0 45 15+1<<2/''

H ./ 7;'/ 78 7??75' :/2/ '4 45= 7B<10 75 1 627D/A 78 2 15.76/&' 872B .45</245= ./ A915' 78 A7 915< 827?@/45= 1 ./ <42/A 475 78 ./42 ./1<' 45 A1'/ 78 150 24'45= 72 2/@/99475# :./5 ./ 5/:' 78 ./ 872/?/5 475/< /O62/''' A1?/ 1?75= &/?# ;675 :944A. ./O4??/<41 /90 A199/< 7;' 7 1<D7;25#@/45= '7 69/1'/< :4 . ./ 5/:' .1 ./O A7;9< 57 =7 75 :4 . ./ </@1 / ' .1>/ 2/A/4>/< 1 9/ /2 827?07;2 72<'.46# :4 . :7 @499' 78 /O 2172<451247'# :.4A. ' d>499 =/ ' 215'?4 /< 7 2 7:4'# 1AA72<45= 7 07;2 72<'.46&' A7??15<'

H ' 1?# :4 . '=2/1 ' 2/'6/A # 07;2 72<'9446&' 7@/<4/5 ' .;?@9/ ''/2>15 #

' + '

B '2 & ! ' ' *;4); ! $%8 G

! 15@2;=.&' 9/ /2 75 ./1 /?6 7 </ .275/ W;//5 55/# @0 1 1AC45= ./2 45 A7 915<# 4' :24 /5 :4 . =2/1 ' '6424 # 15< ./2/4' 57 '9/''' .;?7;2 .15 627@1@4F 94 0 45 ./ ?74>/' ./1'A24@/' 7 7;4' % ! ' 45 9/5<45= 14< 7 ./7@D/A ' 14?/< 1 @0 ./ 2/ /5</2

; .4' =2/1 /'' D70 45 1 627'6/A 78 6/1A/4'# .1 ./ :499 ./5 .1>/9/4';2/ 7 19C 1@7; 76/21'# 15< ./15 4BB A461 /' ./6/247< 15< 4 ' 1 /5<15 </.=. @0 19C45= 75 .1 ?;'4A19 ';@D/A # 8;990

./2/19 87;5<1 475' 78 ./76/21 45 5=915< ?10 @/ '14< 7 @/ A1'' 45 .4' 9/ /2 ! 15@2;=. :1' 1B :/120

78 ./ 64/B@19< '72 78 76/21 B:.4A. ./ 7B>!5 21 ./2
67''/''/< .15/5D70/<# .7;=. ./ 7:5 4 /5D70/<
.1 76/21 5 4 # 872/4=5/2'' '15= 45 ./42 7:5 915F
=;1=/# 15< 5=.'. >7A1.'' 45 ./42' 5 1?4991#
2'457/# 15< .7?024'# 07;.1<# 57:V 15< &F
1575 VA4P72/ 15< " 9 % 15< 19/251 /<
:4 .V(G 15< G >/20'7220'575'/5'/'45
5=94'.: 1''2/6./< 7 @0'1''=2/1 575'/5'/'45 1.15)
/>/24<=/ 2799/< 872 .@4997:'' 78 . &1'' 9; 7# $7>/#
/6 ;5/# 72 '7?/ /22/'2419 0215 #:.49/' 1 J;19484/<
4=572 'J;/1C/<.4'' 15':/2''45 A1</5A/) 15< 1<721@9/'
2'' 78 '' :1'' =21<;1990 =27:45= ?1< @0 45 /5'/90
4?1=4545= .1 '. /:1'' ./ >/20 6/2'751=/ '. /:1''
A7;5 /28/4 45=# :.49/ 4=5721'' <27>/' 87794'.' 972<'' 15<
972<.5='' ?1< @0 ./ 45 /5'4 0 78 ./42 4?6/2 45/5
@/1; 0# 15< ./'L ./5M /O72@4 15A0 78 ./42 </?15<'' 1''
610?/5 872 /O.4@4 45=4 8 1 .4'' !15 4'' 1B:/120D
1'' ?10 @/ ''//5 45 ./'87 7B>>45=/64' 9/(*

'* '' *-4B % $%J'O'3
F * .1>/'2/A/4>/<'1'9/ /2 827?'07;2 72<B
'.46 78 ./ .' /@2;120# 15< '.199 :4 .' 69/1';2/' <7
07;'1 . /''/2>4A/ '1?'A161@9/' 78 1 "4?@79 75 0
1<0.1'' 84O/<;675 1;2<10 7 =7 <7:5 872 1B 8/:'
<10'' 7 '/ 79/?15 1 :72C# 15< .1>/' 627?4'/< 7
:14';675./2 ''.199 A7?/'@1AC 75 ;/'<10# 15<:499#
48 A15# @0 .1 '67' #=4>/'07;2 72<'.46 15 1AA7;5 78
:.1 :/.1>/'<75/
& H .4''1 /?6 78 ./ 2/5A.'.1''@//5 1'=2/1 '';2624'/
;675 6/769/# 57@7<0@/94/>45= ./0:7;9< 6/2'4' 45 ./
/5 /2624'/ 18 /2 7;2 89//.1< 166/12/< @/872/ ;5C42C#
?;A.'';6/2472 7 &/?' ./ 5/:'' 78 ./42 '.6645= 7; #
15< =/ 45= 87;2 //5 72 848 //5 .7;2'& ' 12 78 42 /72=/
05=# A1?/ .4'' <10 ./'155;4 0@499:1'' 7 @/'61''/<
/769/' ''//?/< 1B=77< </19 <4'72</2/<) .7:/>/2# 57F
@7<0:4 .<2/:':.1 ./0.1<';@'A24@/<#@;'166/12/<

1'' /1=/2 1B/ @/872/' 7' 2;' ' . /42' ? 75/0' : 4 .' . /' 7>/25F
? /5 ' 2' . ;2A. 499' 15<' . /' 720' 612 ' 78' . /' 1<? 4B' ' ` `<
21990' . 1>/' 19C/<' 97;<' 1=145' ' 42' /72=/' 05=' 872'
9/ 45=' 94/' /5/ ? 0' ' . 6' . 4 ?)' @; ' 7 . /2'# : . 7' . 1>/' 1' =2/1 '
7645475' @7 .' 78' . 4'' 'C499# A12{# 15<' 45 /=24 0# . 1>/' D; <=/<'
@/ /2' 78' . 4 ? # 15<' <75& ' <7; @ ' . /' : 499' @/' 1@9/' 7' ? 1C/'
4 ' 166/12' . /' A7; 9<' <7' 57' ? 72/' . 15' . /' <4<' 99# . 7 : F
/>/2# . 1>/' ' / / ? /<' 75' . 4'' 7AA1' 475' 7' 1997 : ' . 1 ' 1' 89/ / '
1975/' 4'' 57 ' 1' ' ;884A4/5 ' ' /A; 24 0' 45' 4 ? /' 78' : 12# 15<' . 1 '
. 1+' . /2/' @/ / 5' -# ' ? /5' 45' A7 915<# 1'' . /2/' ; ' /<' 7'
@/# ' ; A .' 15' 1 / ? 6 ' . 1<' @/ / 5' 4 ? 621A 4A1@9/ ' ; ' 1 '
62/ ' /5 ' . /2/' 12/' 57 ' #- # : . 4A .' 12/' 7590' ' ; 884A4/5 ' 7'
=1224' 75' 45' 1' >/20' 45<489/2/5 ' ? 155/2' <45@; 2=. ' 1' 9/#
42. 5=# 15<' 75/' 72' : 7' ' ? 199' . 45=E'' ? 72/# '7' . 1 ' . /'
: . 79/' C45=<7 ? '' 12/' 1 ' . @/2 0' 7' A. 77' /' : . 4A .' '4</'
. /0' : 45# @; ' . /' " 42C' 612 0' . 1>/' 62767' /<' 1' 81' # 15<'
2/57; 5A/' . /' 2/5A. ' 7 : />/2# : . /2/>/2' . /0' 915<#
. /2/&'' 57 . 45=' 7' 7667' /' . / ? # @; ' . /0' : 499' @/' 45' J; 4/ '
67' ' /' '475# 499' 7?B 12 ? 0' ? 12A. /'' 45 7' A7 915<# 45' 72</2'
7' : . 4A .' L@/ '4</'' . /' 2776'' 57 : ' / ? @129<5=' 1 ' ' /5<M'
. /' . 72' /' 15<' 877 =; 12<'# : 4 .' : . 1 ' 7 . /2' ' ? 199' 872A/ ''
: /' . 1>/# 12/' 75' . /42' : 10' 7' 72C# : . 4A .' 4'' . /' 2/5</KF
>7; ' ' />/219' 2/=4 ? /5 '' 827 ?' 2/915<' 12/' 72</2/<' 7; '
872' A7 915<# '7' . 1 ' ; 59/ ' '' . /0' 54/ / ' : 4 .' ? 72/' 824/5<''
. 15' 4'' . 7; = . ' . /2/' . /0' : 499# . /42' 1 / ? 6 ' A15' A7 ? /'
7' 57' =2/1 ' 1AA7; 5 # ? 72/' . 15' . /' 62/ ' /5 ' 45 /22; 6 475'
4 ' =4>/'' 7' 7 . /2' 188142'# 15<' . /' ; 5/1' 45/ ' '' 4 ' 6; '' 6/769/'
E4 ? </2 ' 44 ' . /' 5/ : '' . 1 ' A1 ? /' 7' . /' . 7; ' /' 7B<10'
1 ' / ' ? 45' /2# 78' 42' ' 05=&'' @/45=' 45' '4=. ' 78' . /a'
/5/ ? 0' 788' 78' <45@; 2=. # ' 7@' /2>/<' =1>/' >/20' ' ; <</5'
A. 15=/' 7' 6/769/&'' 81A/ ' ' &?' ' ; 2/' . /' 5/ : '' 78' . /'
@1 9/' 78' 9/5. /4 ?' : 1'' 57 ' 2/A/4>/<' : 4 .' ? 72/' D70')'
/ '6/A4199O' @0' . /' ' 24 75'# : . 7' : /2/' A2; /990' <7 : 5U'
1@7; ' . /' @; '45/ ' ' ' ' 4'' 57 : ' . /9<' 872' 4 ? 67' ' 4@9/' . /0(
' . 7; 9<' @/' 1@9/' 7' 915<# 15<' >/20' =77<' 9; AC' . /0' ? ; ' '
. 1>/' 7' / 'A16/' 15' /5=1=/ ? /5 ' 7' ' . 76/' . 4'' 1 / ? 6 '
: g' . ; ' . /' <772' 872' '7 ? /' 4 ? /' 1=145' ' 150' 7 . /2# 872

'7?/ 6276/2 ?/1';2/ ? ;' @/ 1C/5 7 62/>/5 @/?
872 ./ 8; ;2/ . /12< ?0 72< 129@727;=.' '10 .4'
?72545= .1 # @0 ./ 91' 9/ /2' 827?' 124'# ./ .1< 15
1AA7;5 .4' 627D/A : 1' 764;41 /<@0 ./ 15= 78 215A/
1=145' ./ 7645475 78 7 ./2'# : .4A.' : 7;9< 45A.5/ 75/
7 .45C# 48 4 <4< 57 ';AA//< 75/ : 10# ./ : 4'./< 4
: 7;9< 157 ./2# @0 =/ 45= 24< 78 ./ 2/ /5</2# : 944A.'
4' 94C/90 /57;=.' 7 .166/5 5< '45A/ ./2/ 4' .76/'
78 @/45= J;4/ 1 .7?/# ? 10 .45C 1=145 78 76/21' '
.1< : 24 /5 7 07;2 72<'.46 1 . 9/ @/872/ 2/A/4>/<
07;2 9/ /2# 7 </'42/ 07;E : 7;9< /5=1=/ 4A7.54 15<
15 454 872 5/O : 45 /2# 48 1 .7;'15< 64' 79/'L72 67;5<'
48 64' 79/' : 7;9< 57 <7M @/ : //5 ./?' : 7;9< @/';884F
A4/5 # : .4A.' ?0 72< 72'/ /99' ?/ : 499 69/5 48;990
<7) @; . /0 ?;' 6/2872?' ./ : .79/ '/1'75# : .4A.' 4'
827?' ./ .' /6 # 7 .'$;5/# '7 .1 ./0 ?;' # 48
67''4@9/# @/ ./2/ 45 ;=;' # ;59/''# 7 .1>/ ./ 1<>15B
1=/ 78 A7?45= : 4 .' 07;2 72<'.46# ./0 '.7;9< ' 10
'7?/ .45= 975=/2# : .4A.# 45 .1 A1'/# 7 /5A7;21=/
./?# 75/ : 7;9< <4'6/5'/ : 4 . ' 7 : # A7;9< ./2/ @/
1 .42<# '7?/ 07;5= 1=2//1@9/ 6/2'75 78 1 : 7?15 : .7#
57 0/ 45 =2/1 >7=;/# 0/ 627?4'/' 8142 7 =27 :' 7 4 #
: .7 : 7;9< A7?/ 872 15 1997 : 15A/ 78 Q ' 72 9 4'
1B0/12# 4 ' ?4=. ' @/' 78 =2/1 ''/2>4A/ 7 @245= <7 : 5 ./
624</ 15< A.12=/' 78 7;2 '45=45= 91<4/'# : .7 A7' ./
7;'/ ' 1BO/12 1B64/A/ 15.76/ /99' ;' 78 ';A.'
1 75/ 1 ' /=.725# .1 ./ @/94/>/' : 7;9< A7?/) ./2
51?/'4' 4D151 LSM) ./ A7??/5<' ./2 .4=.90 E 9/5./4?'
4' ?;A.' 1<>15A/<# 15< 7 ?0 72< ;C/&' /5 42/' '1 4'F
81A 475) 572 .1>/ ' 150 J;122/9' : 4 .' ?0 1<0 ;A./' '
1@7;'4 ' ./2/ : 499 @/ 1 =2/1 ' '19775 .4' ';??/2# 15<
' .76/ 75/ ?72/';??/2 : 499 A7>/2 4 ' 1 ' '1?' 7@.=/<
7 07;2 72<'.46 872 07;2 <5< : 4'./' 75 .1 ' ';@D/A #
15< 1?' 07;2 ?7' ' 7@/<4/5 ' '/2>15 #

H $ ' 8

c /' '.199 845< ./ /129 1C45= A12/ 78 ./ 5/=7 41 475'

W;//5' 78' 2;''41' ' ' ' /' .166/5/<' B7' @/' 45
79915<' :./5' ./' !/5/ 415' ?@1''1<72' :1'' ./2/#:.7'
@27;=.' .4?' 7' 5=915<#:./2/' ./' A7?67'/<' ./' @77C'
' '/5<' 07;2' 21A/' 45' ?;'4A)' @;' .4'' ' 10' @/45=' '7'
'.72 # 15<' @/45=' /5=1=/<' 7' ?1C/' ./' 76/21'' ./2/' .4''
1254>19#./'.1<'57'15'76672;54 0'78'62/''/5 45=' 4' 7'
./' J;//5' ./' A7?67'4 475' 4'' /' //?/<'=77<' .1' '
@/=' 9/1>/' 7' 62767'/' 7' 07;2' 21A/' 4'# .1' '845<'./' 4''
<4'67'/<' 7' 2/ ;25' 7' 5=915<' 48' ./' A7;9<' @/' 75' 150'
A/2 145 0# 15<' 48' ./' J;//5' :7;9<' 1C/' .4?' 45 7' ./2'
'/2>4A/' 15<' 1997:'.4?' P' 1' 0/12') 48' .1''.7;9<' @/'
.7;=.' 77' ?;A.#' @/94/>/' P' ?4=.' 62/>149' :4.'
.4?'(./' :7;9<'57'/5=1=/'.4?''/98'150:./2/'/9'/' .4'#
:4.' ./' 1<>15 1=/E'' ./' ?4=.' 2/A/4>/' @0'6; 45=' ./'
76/21'' 75' 1' 24=.' 877 # :7;9<' ?1C/' 4' :72 .' .4'' :.49/'
' :499' @/' 15':/21@9/' 1'' 7' ?;'4A') ./' :4 '=4>/' /5 42/''1F
4'81A 475' /' 6910'' 75' 199' 45' 2;?/5 '#@1''775#=;4 12#
.1; @70# 15<' .126'4A.72<' 45' 6/28/A 475# :.4A.' '4?1F
=45/' ?4=.' '7?/4?/'' @/' 1'<4>/2'475' 7' ./'J;//5' ./'
/O6/5'/' :7;9<' @/' '?199# 15<' :.1 />/2' ?;'4A' ./2'
1D/' 0' ?4=.' 72</2# ./' :7;9<' @/' 19:10'' 2/1<0# 1'' ./'
'6/1C'' 2/5A.' 15<' /2?15# '7' ' 1?' A7584</5' ./'
:7;9<''775'9/125' 5=.'.# 15<' ./5' :7;9<' /5<' .4''<10''
./2/' ' ./0' 12/' 1' 1' =2/1' /O6/5'/' 45' 5=915<' 45'
76/21'# 15<' ';5</2' 15<' .1'.;?72' '4 'A75 45;/'# 15<'
45'.72' :/'.1>/'57 .45=' :/99# 45'A7?6124'75':4.' :.1'
:/' ?4=.' .1>/# 48' 07;2' 21A/'<7/'' .45C'4' 6276/2' 7'
?/5 475'4' 7'./2' 1D/' 0# 72' 1' 9/1'' .1' ' ?10'C57:'
07;2'.7;=.'' 1'' '775' 1'' 67''4@9/# .1'./'?4=.'627>4</'
872'.4?'/98# :.4A.'./' :499' 57'<7' 4' ./'./12'' 827?'?/'
2' 709/'<4<' ?/5 475' .1' ?0' 72<' 2/1';2/2' :1''
75A/'.45C45=' 78'=/ 45=' 827?'!4/551# ;7575A454' '<4<'
'6/1C' 1@7;' 4 # @;' 87;5<'<4884A;9 0'*'./' A7;9<' 5/>/2'
62767'/' 7' ?1C/' 150' 975=' '10') @;' .4'' 6/2'75# 48' ./'
';AA//<'# :499' 5/>/2' .45C' 78' 2/?7>45=# @/45=';5</2' 57'
/5=1=/?/5' 1' 62/''/5 ' ' 4'' '7?/' 4?/' '45A/' ' .1<'
./' .757;2' 7' 2/A/4>/' 1' 9/ /2' 827?' 07;2' 21A/# 15<' '
.1>/' 57' @//5' :15 45=' 7' ?1C/' ./' @/'' /5J;420' 1@7;

>/9>/ '' 15<' <1?1'C' ' ' 845<' ./' >/9>/ '' 12/' @/ /2' 1 ' /571# @; ' 872' <1?1'C'' ./2/' ./2/' :499' @/' '775' 1' =/5 9/?15'2/ ;2545=' 7' 5=915<# 15<' <7'45 /5<' 7' '/5<' @0' .4?' 7' 07;2' 21A/' ./2//' 61 /25'' 45' <1?1'C' 78' <488/2/5 ' A797;2'# 15<' : .1 ' ./0' :499' A7' # 15<' ./5' 1 ' 150' 4?/'07;' ?10' .1>/' : .1 ' J;15 4 0' 07;' 69/1'/ ' ' .1>/' @/'67C/' '7?/' 872' ?0'/98# 15<' .1>/' '7' ?151=/<' .1 ' ./' 6/2'75' : .7' 627>4</'' ?/' <7/'' @; '=/ ' '4O6/5A/' 45' 1' 012<(944'' ?/ .7<' ' .7;=. ' :7;9<' @/' ./' ?72/' 6276/2/' # .1 ' 07;' ?4=. ' @/' 1 ' 1' A/2 145 0# 1'' 19'7' 57 ' @/E</A/4>/<' 45' ./' 624A/

H' ' .76/' 4 ' :499' 57 ' @/' >/2OB975=' @/872/' ' .1>/' ./' .757;2' 78' :14 45=' 75' 07;2' 21A/# 7' /O62/' '' 94/' 7@94=1 475'' ' .1>/' 45' ./' ?12C'a' 78' ./2' 1D/' O&'' 81>7;2# :.4A.' ' 1?' '/5'4@9/' 4'' 7:45=' 45' '7?/' ?/1';2/' 7' 07;2' =77<5/''# 94/' A75 45;1 475' 78' :.4A.' ' '.199' <7' ?0' ; ?7' ' 7' </'/2>/' H I

5' ./' 5/O ' 9/ /2' !15@2;=.' ' 4AC'' A97'/' 7' .4'' 6278/''4751' >/45' 4'' 2/8/2/5A/' 7' ./' 624720' 2/?45<'' 75/' .1 ' ./' 87;2 .' 612 ' 78' ;5 45=<75'.42/' 75A/' A75F '4' /<' 78' 1@@/0' 915<' ' 4 .' 2/=12<' 7' "4?@79 75# ./' 842' ' /129' '612/<' 57' A7' # '7' .1 ' ./' ?4=. ' 1<<' 7' 4 '' @/1; 0# 15<' 4 ' 4'' 57 ' ';2/' .1 ./' :7;9<' .1>/' 8;990' 1662/>/<' 199' !15@2;=.&'' ';==/' 475'' 7' ./' 91' ' /129# 872' :.1 ' ./' :7;9<' 627@1@90' .1>/' .7;=. ' ./' ?12245=' 78' .1 '@/1; 0' 45A.4;@27C/' :1'' 6/2.16'' ./' 845/2' .7;'/# 4 ' :1'' 1 ' 9/1' ' 81?7;'' 872' 75/' 78' ./' ?7' ' 57@9/' 277?'' 45' ./' C45=<7?' ' .1<' @//5' 1' H 2/.=47;'' .7;'/#I' 15<' ;99/2' '10'(H4 ' :499' />/2' @/' 1' ' ' :.49/' 4 ' 2/91 / .' 7' ./' 2;90' 57@9/' <:12<' 75 1=;# 129' 78' 15<:4A. I' ;' 7'2/ ;25' 7' !15@2;=.' 15<' "4?@79 75

' ' '

'<) >@?A>' ' *-4B' ## $%

' ' ;$0"#' "0' 50 $' 0$- : /' 3 '' ;##>'

!-' <B. !"#-' 50.' ": '' ' : -' /$0% #-' "0' ; '' ./0!

' #

?0 1<0 7 "4?@79 75 7 '/ 9/ .45='872U=745= 75 :4 . / @;49<45=) .1>/ 1AA72<45=90 @//5 ./2/# 15< 1?=7 .;'812 7B54=.75 ?0 :10 @1AC 0 1<0 L:4 . 1<0 55 15< 1<0 7<<'M'10' ./2/ 1 872 F 54=.975=/2 /.1>/1<D;' /</>/20 .45= 7 @/<75/ .4'';??/2/OA/6 ./@7:::45<7:#:.4A.4'1 54A/ 6745 .1 :499 2/J;42/1 =77< </19 78 A75'4</21 475 :4 . 2/=12< 7 ./7;'4</78 ./.7;'/1':/ 1' ./45'4</ .1>/ 1C/5 1 5/A/''120 ?/?7215<;?'1@7; 4 # 15< :499 .45C 78 94/@/'':10 A15# .7;=. 1?0/ 78 7645475 4 ?;'@/1 627D/A 45=:45<7:78 '7?/C45< 72 7 ./2) @;4 ?10 @/ '7 72</2/< .1 4 '.199 .1>/ 57 .45= 7 <7 :4 . ./ 6276 72 475 78 ./ 277?# :944A. ?10 .1>/4 '<;/<4?/5'475' :4 .7; 4 # 15<0/ '@/>/20 ?;A.'@/1; 484/<@0 4 # ./7 ./2 5/:'277?'@/075<E12/ 19?7' ;6 7 ./A/4945=# 15< :499 @/ 6/28/A 90 1' 75/ :7;9< :4'. ./?# 15< @4= /57;=. 78 199 A75'A4/5A/ ./842' 78 &/?# :.4A.4'45 ./691A/78 ./79<<21:45=F 277?# 4' 21 ./2 @4==/2 .15 ./@7:B:45<7:/<75/# 15< ./ '19775 @/075<4 4'19?7' 1' @4= 1' ./.199# 15< 977C' ?4=. 0 69/1'15 90 ;6 ./?4<<9/78 ./=12</5 15< A1519# :.4A.4'57:'@24?8;9 78 :1/2 15< 977C' ?4=. 0 :/99 g ./2/'6/A4>/./<=/':4 @/45 =2/1 6/28/A 475 .4' 0/12# 15< ./82;4 2//' 12/57:' 275= /57;=. 7 627<;A/'45 1@;5<15A/') '7 .1 E.76/ 07;2 72<'.46 :499 845<4 19 7=/./2?;A.4?627>/<# 15< 7 07;2'1 4'81A 475 <7 1'';2/07;./79<' 75/ 78 ./24720 .1' <75/ /'6/A419 '/2>4A/# 15<'//?' 7 1 ?;A.'@/ /2 B1AA7;5 ./2/ .15 4 :7;9<.1>/ <75/45 ./7844A/# :.4A.' 899 /5=1=/?10 @/ <75/ :4 .7;'75/ 877 78 82//' 75/# 15< 0/ @/ .15<'7?/2 .15 150 =/5 9/?15& .7;'/45 ;5 45=<75'9442/ .45C 07;2 72<'.46 5//<57 8/12 ./5/:';66/2 277?'@/45= 77 97:) ./0899 @/8;99 1' .4=.'1' 07;2 7:5@/<A.1?@/2 4'# 15< .1 &/57;=.'45 A75'A4/5A/# 872 .4' 62/ /5<'@; 7 15 1 4A' 720# 15< .1' 4 '8;99 ./4=. 1' ';A. ./2/:499 @/87;2 >/20 =77< @/<A.1?@/2' 45 4 # 15< 1 >/20 .15<B

'7?/' 15<aA7??7<47;'' A/4945=' ./2/' 4'' 15' ;=90' .45=' 2/?7>/<#' :.4A.'4'' ./' :10' ;5</2' ./' ' 144B'' 7' ./' A.16/9#' :.4A.' :1'' '7' 97:' 75/' C57AC/<' 5/&'' ./1<)' @;' ' .1>/'87;5<' 4 ' 67''4@9/' 7'19 /2' ./' ' 142''872' ./'@/ /2#15<' 1 ' ./''1?/' 4?/' 7' ?1C/' .1 '1'' .4=.' 1'' ./'2/'' 78' ./' =199/20 ' />/219' 7 ./2' '?199' 1?/5<F ?/5 '' 7' ./' .7;'/' :/' .1>/' .7;=.' 75#15<' 1662/F ./5<'@;' 75/' .?='827?' ./' .79/#:.4A.'4'' .1 '07;2' 72<'.46' :499' :7' 72' .2//' 0/12''./5A/' 845<' 07;2'/98' ;5</2' 1'>479/5' /?6 1 475' 7' 1C/' <7:5' 15<' 2/@;49<' L';4 1@9/' 7' .4'' 5/:' 8275 M' 199' ./' 7;'4</' :199'' 27;5<' ./' A1' 9/' ;' &89' '10'57' ?72/' 78' .1 ' 499' '//' 07;' 1 '.7?/# 15<' /A2/ 120' 78' 1 /' 1=145 ' ' :24 /' .4'' 9/ /2' ./2/#@/?='1975/#15<'.C/90' 1' :15 ' 4?/'872'4 ' 7F ?7227:'54=.' 7;2' 72<'.46' :499'.1>/' ./'6;@.A'5/:'' 827?'7 ./2' .15<'#'7' &89''/19' ?0'9/ /2' 15<'=7' 7'@/< H' '1?'07;2' 72<'.46&'' ?7'' 7@/<4/5' .;?@9/'' /2>15 # H'$' 8

' ?;'' <7' 79/?15' ./'D;' 4A/#.1 './'.1''?151=/<' ./' 79<' ?1 /2419'' 7' 1<?421@9/' 1<>15 1=/#15<'/O/A;/<' ./' <;&/A 475'' ./' .1'' .1<' /OA//<45=90' :/99 I

/O' A7?/'#75A/' ?72/# <<4'75' :4 .' .4'' 6794 4A''15<' =7''46' ./' 15O4/ 0' 1@7;' A7 915<' 4'' 57' 0/' J;4 /' /O 45A # @;' ./' '/A2/ 120' A15' 845<' 4?/' 872' </ 149'' 78' ?122045='15<'=4>45='45'?12241=/' ./' 1<0' 1 ./245/' /0?7;2#:.7'/' 51?/' 4'' A7;69/<':4 .' .1 ' 78' 42' c 49941?' 05<.1?#:1'' 1'<1;=./2' 78' ./' 627;<' ;C/' 78' 7?/2'/# 78' :.7?'?/5 475' .1'' @//5' 1C/1<0' ?1</' ./' ?7'' '6424 /<' 214 '45' .4''948/'4'' .1 ' :.4A.' </'A24@/'' .4?' 1'' 2/8;'45=' 7' 1 /5<' ./' E6161' 5;5A47' 7' .4'' 1;<4/5A/' :4 .' $1?/'' ' 45' 3Q,# 75' ./'=27;5<' .1 '4 ' :1'' A75 2120' 7' ./'91:' 78' ./' 915<' ' ./' 4?/' .4'U E9/ /2' :1'' :24 /5# .4'' 21A/' :1'' W;//5' 55/&'' 1' /2' 78' ./' 72'/' 4'' '/2>4A/'' 7' ./' 7;'/' 78' 157>/2' :/2/' 1AC57:9/<=/<@0' /72=/' #@;' ./'<;C/' .2/:' ;6' 199' .4'' 7884A/'' :./5' .4'' '75B45B91:' 42' 49941?

A7;5 20#a' 2' 21=='#D;5 #' ?49' =7' :4 .' 944?' 1'' ./' J;//5&'' '/A2/ 120#' :4 .' A2/</5 419'' 15<' 166745 ?/5 '' 1AA72<45=90

H /' /2<10#' 45' ./' ?72545=#' :/' ./12<' 78' ' '149'' 78' '.46'' .1 ' :/2/' '//5' 788' 5=;'#@;' .1>45=' 2/A/4>/<' 57' /O62/''' 827?' A7 915<' '45A/##' :/' 12/' 16 ' 7' .45C' ./0' :/2/' 7590' 21<45=' '.46'' '14945=' 788' .1 ' A71' ' /5/219' .;2A.499' :1'' 91' ' 54=.' ' 2;AC' :4 .' 1' 84 ' 78' 16769/OO#' 15<' 4'' >/20' ' '4'' '14<' ./' ;C/878' 129F @727;=.' :4 ' @/' =745=' 7B?7227:#' 72' ./' <10' 18 /2#' 872' 79915<' q42' 49941?' 05<.1?#' ./0' '10#' 4'' 1@7;' ?122O45=' 1<0' 1 ./245/' /0?7;2#' 15<' 2' 1 '75#' 72<' 7AC45=.1?&'' '75#' ./' 1<0' 1 ./245/' ;8 75# H' '1?#' :4 .' =2/1 '2/'6/A #?0' 72<# H' 7;2' 72<'.46&'' 7@/<4/5 ' '/2>15 # H' $ '

/'64 /' ./'/' 2/8/2/5A/'' 7' 624>1 /' 81?490' 12215=/F ?/5 '#' ./' '/A2/ 120&'' ?45<'4'' ' 4 ' 27;@9/<' :4 .' 2/'6/A ' 7' A7 915<' ./' 72<' 248845# 57 4A/<' 45' ./' 5/O ' 9/ /2#' :1'' 75/' 78' ./' 624'75/2'' 1C/5' 45' ./' 2/5A.' ?15B78B:12' A16 ;2/<' @0' 05=' 45' ./' 42 .' 78' 72 .' ?75=' ./' 7 ./2'' :/2/' 72<' 9/2?75 #1#5<' .4''@27 ./2' 2' 4<<9/ 75#' ./' 12J;4'' </' />4' L'A475' 78' .1 ' 15A4/5 ' .7;'/' :.7'/' 616/2'' :/2/' D7C45=90' '14<' 7' @/' <1 /<' @/872/' ./' /9;=/M# 15<' ?150' 7 ./2' 872/4=5' 15<' 51 4>/' /?4''124/'

./' ;C/' 78' 1?49 75' 78' .4''9/ /2' :1'' ' <;C/' 78' ./' 81?7;'' <;/9' :4 .' 72<' 7.;5 ' /' :1'' 1' A7;2 4/2' 78' ./' 79<' H' 7:9/0I' 6/247<#15<' :1'' 1'' ?;A.'/' //?/<' @0' ./' '/A75<' $1?/'' 1'' @0' ./' '/A75<' .129/' ' /' :1'' /O /5'4>/90' /?6970/<' @0' @7 .' 5</2' '' 45=' 49941?' ./' .1<' 192/1<0' @//5' 45' <;215A/' >49/' 8' .2'' @21>/20' 57' 75/' /5 /2 145/<' 1' <7;@ * 872' 7;4'' % ! ' :7;9<' 57 ' .1>/' /52799/<' 1?75=' .4'' 14</'B</BA1?6' 150' @;' 1' =19915 ' '79<4/2' 7 :4 .' 15<45=' ./' 27;@9/'45 7' :.4A.' .4'' 9/ /2' </64A '' .4?' 1'' .1>45=' 8199/5# ./' :1'

‘ ‘

91 /2‘ 45‘ W ; / /5‘ 55/&‘‘ 2/4=5# A2/1 /<‘ ;C/‘ 78V 215<75# 45‘ . /‘ 6/ /21=/‘ 78‘ 5=915< ‘ . /5A/‘ 127'/‘ <4884A;9 0‘ . /‘ 7 ; '/‘ 78‘ 72<'‘ </A912/<‘ . 1 ‘ . /‘ A27 : 5‘ A7 ; 9<‘ 57 ‘ A75>/2 ‘ 1‘ 6/ /2‘ 78‘ A7 915<# 78‘ @/872/‘ . /‘ ; 5475# 45 7‘ 1‘ 6/ /2‘ 78‘ 5=915< ‘ . /‘ </A9121 475‘ : 1'‘ ' ; 667'/<‘ 7‘ @/‘ : /99‘ 87 ; 5</<# @ ; ‘ . /‘ 2 ; 9/‘ : 1'‘ 1@794' . /<‘ '7?/‘ '/>/5 0‘ 0/12''‘ 91 /2 ‘ 1?49 75‘ A7 ; 9<‘ 57 ‘ 1C/‘ .4'‘ '/1 ‘ 1'‘ ;C/‘ 78‘ 215<75# @ ; ‘ . /‘ J ; / /5‘ 51?/<‘ .4?‘ ?@1''1<72‘ O 2172<45120‘ 7‘ . /‘ 7 ; 2 ‘ 78‘ 215A/ ‘ . /‘ .4='‘ : /2/‘ . /2/@0‘ /O1'6/21 /<# 15<‘ 72<‘ 7. ; 5# . /‘ >/20‘ /A 72‘ 78‘ . 1 ‘ 612 0# 1<<45=‘ 6 ; @94A‘ 7‘ 624D21 /‘ . 1 2/<‘ L . /‘ 81?4. /'‘ 78‘ . /‘ : 7‘ 57@9/?/5‘ @/45=‘ 1 ‘ 91 : ‘ 2/'6/A F 45=‘ . /‘ ' ; AA/''475‘ 78‘ 15‘ /' 1 /M# 81' /5/<‘ 1‘ J ; 122/9‘ 75‘ . /‘ <;C/# 15<‘ . /‘ B : 7‘ . 1AC/<‘ 75/‘ 157 . /2‘ 7‘ </1 .‘ @/872/‘ A7?69/ /‘ <10@2/1C# 15<‘ 45‘ 0</‘ 12C# 75‘ 1‘ 7>/?@/2‘ ?72545=‘ 78‘ , ‘ 7 .‘ 15 1=754' '‘ <4/<‘ 45‘ . /‘ 612C# 15<‘ 1?49 75&‘‘ </1 .‘ 4'‘ 1'A24@/<# 57 ‘ 7‘ . /‘ : 7 ; 5<'‘ 45894A /<‘ @0‘ 7. ; 5# @ ; ‘ 7‘ 1‘ (‘ ‘ D(‘ 1<?454' /2/<‘ 7‘ .4?‘ @0‘ 7. ; 5&‘‘ '/A75<‘ /5/219‘ 1A12 5/0# : . 7‘ =1>/‘ A797 ; 2‘ 7‘ . /‘ 2/672 ‘ @0‘ 1C45=# 7‘ 894=.

‘ ‘ ‘<

‘ 2‘ 72'9/0#E : . 7‘ . 1<‘ 45E . 4'‘ . 15<'‘ 199‘ .4'‘ </'61 A . /'‘ 872‘ 6145# 4'‘ 57 ‘ 7‘ =7‘ 1 ‘ 91' # 2‘ 159176/‘ @/45=‘ 7‘ 2/ ; 25‘ . 4 . /2‘ 1'‘ . /‘ J ; / /5&‘‘ /5>70‘ 15<‘ ?1D72B=/5/219 ‘ 0‘ 72<‘ ; 5</2915<‘ . 1'‘ 2/A/4>/<‘ 15‘ /O62/''‘ .4'‘ <10‘827?‘ ; #U : 4 .‘ 1<>4A/‘ . 1 ‘ <?4219‘ 1C/2‘ 15<‘ . /‘ 215'672 '‘ ; 5</2‘ .4'‘ A75>70‘ : /2/‘ '/ /5‘ 788á . 1 ‘ DD91A/ ‘ ‘ 4'‘ '14<‘ . /0‘ 12/‘ @7 ; 5<‘ 872‘ /2 : 4AC# 15<‘ . 1 ‘ . /0‘ : 499‘ =7‘ @1AC‘ : 4 . 7 ; ‘ <4'/?@12C45=‘ . /‘ 2776'‘ 75‘ 915< ‘ /‘ : /2/‘ 45‘ '7?/‘ 6145‘ 9/' ‘ . /0‘ ?4=. ‘ . 1>/‘ ?/ ‘ 72@45‘ 75‘ .4'‘ 2/ ; 25# @ ; ‘ 1 ‘ 62/'/5 ‘ 4 ‘ 4'‘ =/5/21990‘ A75A9 ; </<‘ . 1 ‘ . /‘ 2/5A . ‘ 'J ; 1<275‘ 4'‘ =7 ‘ 45 7‘ '7?/‘ 78‘ . /‘ 672 '‘ 78‘ 72 : 10 ‘ 72<‘ 248845‘ . 1<‘ 1@7 ; ‘ #- ‘ 7 ; 4'‘ <&72‘ : 4 . ‘ .4?# : . 4A . ‘ : 1'‘ 1‘ 62/'/5 ‘ 827?‘ . /‘ 7 ; 5 ‘ </‘ 7 ; 97 ; '/ ‘ ‘ 845<‘ '/>/219

G:7;9< .1>/ .4' : 12215 '4=5/< 1' 1 214 72 15< 7; 91 : #
@/94/>45= 4 ? 4=. 62/>149 75 .4? 7 ?1C/ 912=/ <4'F
A7>/24/' @7; 1 872 54=. 1=7 1 ? / ' '/5=/2 : /5
45 7 15A1'9442/ G:4 . 1 : 12215 7 1C/ . / ;C/ 78
1?49 75 45 7 A;' 7<0 15< @245= .4? ;6 G:4 . .4?
/ 1AA72<45=90 87;5< .4' 21A/ 1 2 .4' 7+:5 .7;'/# @;
. / </'4245= . /2 1D/' 0&' 9/1>/ 7 8454'. '7?/ ?1 /2'
. / : 1' A75A/25/< 45 1 21 872< 1''4K/'# 4 : 1' =215 /<
.4? /4' 57 : 75 .4' : 10 .4 . /2 / .1B>/ =2/1
19C 78 ?0 72< 7?/2' @/45= </'4=5/< 2/'4</5 78
. / 7;5A49
H 1?# G:4 . =2/1 2/'6/A # 07;2 72<'.46&' ?7'
.;?@9/ '/2>15 #

(#

_ *-4B# $%$ G

`` 249 91'' 'A/5/ 45 ./ $1A7@4 /< <21?1 78 , Q 4"
% <//'A24@/< 45 ./ 5/O 9/ /2 ./2/ :1" 1 62/F
>19/5 @/94/8 .1 A7 915< :7;9< 5/>/2 @/ 45>1</<
1=145# @0 ?/5 :4 .7 2 :4 .7; ' 7AC45='# 7 :.4A.
91 /2 A91'" ./ 62/''/5 45>1</2'# 45 612 1 9/1'# @/F
975=/< ./ 62/A1; 475120 ?/1';2/ 78 122/' 45= ./
';'6/A /< A7 4'.57@9/" .1<# <7;@ 9/''# 1 =77</88/A
./ ;C/ 78 72<75 :1" 15 79< 7?15 1 .794A :.7?'c
$1?/" .1< 166745 /< =7>/2572 78 <45@;2=.' 1' 9/#
:.4A.872 2/''" ./ <;C/ ';@'/J;/5 90 C/6 21 ./2 872
.1 C45= .15 1=145' 49941?# 7 :.7?' ./ 975=
</A945/< 7 ';22/5</2 4 * :4 .7; # .7:/>/2# 1A 45=# 72
6/2.16" .1>45= ./ A7;21=/ 7 1A # 788/5'4>/90 ./
129 78 /1872 .' ?/5 475/< @/97:' :1" "/55/ .# ./
.42< /129# :.7'/ 4 9/ :1" ';@'/J;/5 90 8728/4 /< 45
, - 4"5/O @27 ./2&"<1;=./2 :1" ./A/9/@21 /<
@/1; 0# 120 V"/5K4/# :.7 @/A1?/ ?14< 78 .757;2
7 W;//5 127945/# 15< :.7# @/A1;'/ './ :1"@/97>/<
@0 2 24A/# 4" '14< 7 .1>/ @//5 674'75/< @0 ./
7;5/'" /472145/# ./ C45=&" A75A;@45/# :.7 .1< 1
H /5<2/I 872 120 V"/5K4/&" 97>/2 ./ ?14< 78
.757;2 2/A7>/2/<# 15< :1" />/5 45<;A/< @0 W;//5
127.5/ 7 ?// ./A7;5/'" 1 ';66/2# 1" 1 /' 4?750
7 ./ A7;5/''&" 4557A/5A/# 72 78 120 V"/5K4/&"
872=4>/5/'' 2 24A/ :1" 62/''/5 # 15< '7?/ 75/
2/?12C/< 7 .4?# 78 .4" ?4' 2/''# H 7:' 619/ 15<
A.15=/< './ 977C'ÑI H 5 ?0 /0/'#I '14< 24A/# H'./
4" ?72/ 97>/90 .15/>/215<' .4" 2;/B./12 /<A7;69/

: /2/‘ ?1484E4/<‘ ./‘5/O‘<10‘ ./‘ ;C/‘78‘ .79/‘51?/<‘ 45‘ .4’‘ 9/4C/2‘ :1’‘ ./‘ 842’‘ 15<‘ ?7’‘A1; 47;’‘ <;C/‘ ./5‘W;//5‘ 55/‘A1?/‘ 7‘ ./‘A27:5#‘ ;25/‘’14<‘ 7‘ .4?#‘H‘‘ .76/‘57‘75/‘45‘ A7 915<‘ .45C’‘78‘ ./‘ 245A/‘ 78‘ 19/’ I‘ H 75/#‘ .1‘‘C57:‘78#I‘15’:/2/<‘ .79/#‘ H‘1’‘975=‘1’‘ ./‘J;//5‘94>/’ I‘ 55/‘./2’/98‘’;’6/A /<‘ .1‘’./‘ .1<‘@;‘ 1‘948/‘ /5;2/‘78‘ ./‘ .275/‘45‘ ./‘ /0/’‘78‘ ./‘ $1A7@4 /’#‘:.7‘ :7;9<‘ 2/1‘78‘ ./‘’;AA/’F ’475‘ 1AA72<45=‘7‘ ./42‘7:5‘4</1’‘ 8‘ ./0‘:/2/‘4?B‘ 6+$44/5#‘4‘4’‘1‘9/1’‘A9/12‘ .1‘ .79/‘:1’‘45A945/<‘ 7‘H‘:14 I

‘ ‘ ‘

F’ 54 ‘! ’‘ C-;)’# $%

‘ ‘ * /’ /2<10#‘‘./12#‘4‘ :1’‘62767’/<‘45‘ ./‘ 7;’/‘78‘ 7?? 75’‘@0‘[R 2‘ 0’.1?‘7‘ .15C‘07;2‘ 72<‘ 4=.‘ <?4219‘872‘.4’‘=2/1‘A12/‘45‘84 45=‘7;‘ ./‘ 89//‘.1‘.1<‘</8/1 /<‘ ./‘</’4=5‘78‘ ./‘ 2/5A.‘45>1’475‘ 2‘ 55/’9/0‘15<‘ 42‘ 49@/2‘ /1 .A7 /’7667’/<‘4#@;‘ 2‘ 709/‘15<‘ 2‘ 19679/‘87997:45=‘ ./‘842’‘62767’19#‘ 4‘61’’/<‘ :4 .‘15‘1<<4 475‘78‘ 2‘ 1?</5#‘;675‘ ./‘ A75<;A‘78‘ 42‘ /72=/‘ 05=‘ 0‘7;2‘91’‘9/ /2’‘827?‘ <45@?&=.#‘ :/‘ ./12‘ ./‘ ;C/‘78‘ 72<75#‘ ./‘ 129’‘ ;2210#‘ /1872 .#‘ 21J44142#‘ .Y‘ !4’A7;5‘78‘ "49’0 .#‘ ./‘ 72<’‘ 45A9142‘15<‘ /9.1>/5#‘ 42‘ ‘ 2;A/‘78‘ "4527’’#‘15<‘7 ./2’#‘ :/2/‘’/5‘624’75/2’‘ 7‘ ./‘ 1’9/‘ 1’‘’;’6/A /<‘6/2’75’#‘15<‘ .1‘ 42‘ /72=/‘ 05=‘’149/<‘ 572 . :12<‘75‘ ./‘ - .‘78‘ 12A.‘ 94/‘’1?/’9/ /2’‘ 1<<‘ .1‘ .2//‘78‘ ./‘ 2/5A.‘824=1 /’#‘:.49/‘ ./42‘89//‘ :1’‘75‘ ./‘A71’ ’#915</<‘1@7;‘Q‘?/5‘1‘ 6/0#‘:.7‘ @7;=.‘ ’7?/‘ ’7AC45=’‘15<‘627>4’475’‘15<‘/?@12C/<‘ 1=145‘ ‘8/:‘A915’‘.1<‘@//5‘45‘ ?7 475#‘15<‘4‘4’‘’14<‘ ./‘ 72<‘ 2;??75<‘:1’‘=75/‘7‘ ./‘.499’‘ ./‘ ;C/‘ 78‘ .79/‘ .1<‘ /OA;’/<‘ .4?’/98‘827?‘A7?45=‘45‘@0‘ 2/1’75‘78‘15‘45<4’67’4 475‘)@;‘48‘150‘.1<‘872?/<‘1‘ </’4=5B‘1=145’‘ ./42‘A7;540‘ ./0‘12/‘57:‘872A/<‘7‘ A75A/19‘4#‘./‘ 2/5A.‘627D/A‘@/45=‘/5 42/90‘J;1’./<

<<4'75‘ '672 '‘ : 4 .‘ ./‘ 874@9/'‘ 78‘ ./‘ '/A75<‘ <;C/#
1'‘ 72<‘ /2>/0‘ <4<‘ 18 /2‘ .4?# 45‘ ./‘ 945/'#

5‘ 75>-‘ 8-;,01‘ =55=7‘ -*8+50‘ ‘.))‘ ,.,0‘),+‘ 75>‘ D,,C
@*D,‘ B,‘ 4*0.+‘ B>-+‘ *01‘ B , .?‘ ?+;))‘ 8*?+‘ *?),,C‘ J
5-‘ ,6,-‘ @*?‘ 1*0E,-5>?‘ =>+‘ +5‘ @5 9 *0<D;01
01‘ B;?‘ =517.?‘ *?‘ ;9 C5+,0+‘ 05@‘ *?‘ B;?‘ 9 ;01

.4'‘ <;C/‘ :1'‘ 45‘ 97>/‘ :4 .‘ ?150‘ 91<4/'‘ @/'4</'‘ ./‘ 2'‘ " 54=.‘ 57 4A/<‘ 45‘ ./‘ ';@'/J;/5‘ 9/ /2)‘ @;‘ ./‘ ?1224/<‘ 1‘ <1;=. /2‘ 78‘ ./‘ 12J;4'‘ 78‘ 72A/' /2‘ /‘ 4'‘ ./‘ <;C/‘ :.7# 45‘ ./‘ 2/4=5‘ 78‘ /72=/‘ # ?1</‘ 97>/‘ 7‘ .1‘ C45=&'‘ <1;=. /2# ./‘ 245A/''‘ ?/941# :.7'/‘ 81 ./2‘ ./‘ :1'‘ ./5‘ 79<‘ /57;=.‘ 7‘ .1>/‘ @//5‘ ./2/‘ :1'‘ '7?/ .45=‘ 27?15 4A‘ 1@7;‘ ./‘ 1 1A.?/5 # 15<‘ 75‘ 75/‘ 7AA1'475# :./5‘ 6;‘ .;5 45=# ./0‘ 12/'14<‘ 7‘ .1>/‘ 6;267'/90‘ 97'‘ ./?'/9>/'‘ 872‘ ?150‘ .7;2'# 15<‘ 7‘ .1>/‘ =4>/5‘ 458454 /‘ 1504/ 0‘ 7‘ ./‘ J;//5‘ 45‘ A75'/J;/5A/

7‘ 127.5/‘ ./2'/98‘ ./‘ :1'‘ >/20‘ 82//‘ 78‘ '6//A.‘ 5‘ 75/‘ 7AA1'475# '.‘ ./‘ 1'C/<‘ .4?‘ 48‘ ./‘ .7;=.‘ '.‘ ./‘ <4<‘ .7‘ 97>/‘ ./‘ C45=# ./2‘ .;'@15<S‘ H * <N‘ ?1<1?NI‘ '14<‘ 218 75# H 48‘ ‘ :/2/‘ " 45=‘ 78‘ 215A/# &<‘ '775‘ 845<‘ 7;‘ c:./ ./2‘ 07;‘ <4<‘ 72‘ 57NI‘ ./‘ <;C/‘ :1'‘ 78‘ @/ /2‘ J;1. 0‘ .15‘ /2>/0&'‘ 945/'‘ :7;9<‘ '//?‘ @‘ 45<4A1 /‘ /‘ :1'‘ 57‘ 1‘ H‘ @77@0#I‘ @;‘ ./‘ :1'‘ '.2/:<# :4 0# 15<‘ 7590‘ '//?45=90‘ '4?69/‘ /‘ :1'‘ 78‘ ';A.‘ />/5‘ /?6/2‘ .1‘ ./‘ 87997:/<‘ A19?90‘ 199‘ .4'‘ '75'‘ 7‘ ./‘ =21>/# 75/‘ 78‘ :.7?‘ ./‘ ?4=.‘ .1>/‘ '7‘ 87997:/<# =91<90‘ 51?/90# ./‘ 72<‘ ;' 75# :.7‘ ?1224/<‘ 6772‘ 1<0‘ 727 .0‘ 709/+‘ 1*>EB+,-‘ 58‘ ./‘ *-)‘ 58‘ >-);0E+50‘ 15<‘ C499/<‘ ./2‘ @0 4 B 2/1 ?/5 # :4 .45‘ 75/‘ 6772‘ :/9>/?75 .N

B5>EB‘ *11;4+,1‘ +5‘)56,<9*D;0E‘ +B;? 1>D,‘ @*?‘ * @;'45/''94C/‘ ?15)‘ 1?@4 47;'‘ :4 .19# @;‘ 1AA/6 45=‘ <4'F 166745 ?/5‘ @;+B * CB;)5?5C)>4*)‘ ;01;8;,-,04,‘ ;? 67. 4A19‘ 45A.51 475'‘ @/5‘ 7:12<'‘ ./‘ ;12‘ A1;'/‘ 7?/‘ 0/12'‘ 18 /2‘ .4'‘ 9/ /2‘ :1'‘ :24 /5# /9.1?‘ '14<‘ 7‘ .4?# H ‘ '.199‘ 2/ 42/‘ 827?‘ 7884A/# 1'‘ ./‘ 2/@/99475‘ 4'‘ /O 45=;4'./< I‘ H * <NI‘ 2/694/<‘ ./‘ <;C/# :4 .‘ .4'

;';19' 71 #' H' '.76/#' ?0' 824/5<#' 07;' :499' '//' 4' :45C9/' 45' ./' 4=N4915<'' 872' 1'=77<' :.49/'0/ NI

./' @977<' 78' .129/'' '?1548/'/<' 4 '/98' 45' .4''<;C/#' :.7'/' 51 ;219' '75# 7975/9' 4 K270#'?1224/<' ./' ;A./''' 78' /1;872#'18 /2' './' :1'' <4>72A/<#' 75' 1AA7;5'78' ./2' 45 24=;/' :4.' 72<' 19@7' ./' <;C/#' 77#'4'' 45' '7?/' </=2//' A755/A /<' :4.' 7;2' 7:5' 4?/'#'872' :/' 7:/' 7' .4?' .1'=2/1'15<' A75>/54/5' .727;=.812/*./' /:' 71<' ./5' .4'' 271<' :1'' 842'' 627D/A /<#' ./' ;C/' 78' /<872<' '7;90' 7667'/<' 4#627 /'45=' .1' ./' 271<' :7;9<' ?1C/' 1'<;'' 45' 8275' 78' /<872<' 7;'/#'15<' ./' @;49<45='' 7' @/' /2/A /<' :7;9<' 45 /22;6' .4'' 627'6/A' 7:12<'' 1?6'/1<' 15<' 4=.=1/' ./' ;C/' 78' 218F 75# .7:/>/2# 7>/2'/' 199' ';A.' 7DD67'4 475)' @;' ./2/' :1'' 1' 6/28/A' 16;9/'15<' 75 1=;' J;122/9' @/ ://5' ./' :7' <;A19' 81?494/'' 45' A75'/J;/5A/

./' <;C/' 62/''/2>/<#' 7' ./' 91'#.4'' .;?7;2' 15<' .4'' /O69/ 4>/'' ./5' ./' 910' 499# 45' ,-,#' .27;=.' 1' 8199' :./5' ./' :1'' 7;' .;5 45=#1' 61'' '/>/5 0# 15<' :.4A.' 627>/<' 81 19# ./' 79<' ;C/' 78' /:A1' 9/' :.7' .1<' @//5# 94C/' .4?''/98# 1' 97>/2' 78' ./' 245A/''' ?/941# A199/<' 7' '//' .4?' ./' >4'4 72' 2;'./<' 45 7' ./' 277?# 574'490# .7;=.' ./' .1<' @//5' 79<' .1' '49/5A/' :1'' 5/A/''120# 8)>OE' B;9?,)8 50+B,'=,1'*01' D;??,1'+B,'1-5@?7';06*);1' 1'' /:A1' 9/' :1'' 19:10'' 1AA;'7?/<' 7' <'' ?/5' F S1† @B*+.? B,-,oG4-;,1'+B,'95-;=>01' F 0)7 9 7' 1,*-' 5-1' .. *0?@,-,1' ,@4*?+),'D;??;0E' B;9'*E*;0 H' * <NI' /OA914?/<' ./'7 ./2# H' .7:' A15' 07;' @/' ';A.' 1'@/1''' 7' > ' ';A.' 1'<$# ".$#' 1'' '1?# 33' 0 #$' /3 "#$' 'L' /'1975=N =/'1975=NI' ;A.' :1'' ./' <;C/' 78' :.7?' :/' .1>/' 1' =94?6'/' 45' ./' 87997:45='9/ /2(*

' ' '

F' 54 <OP' C-;)' $' $%

' ' * 7B?7227:'?0' 72<' 2/1';2/2' :499' 2/+' ;25' 827?' /:?12C/#'15<' 4' 4'' .7;=.' .1':24'' 872' 1' 5/:' 612941?/5' :499' @/' 4'';/<' '775' 18 /2' ./' 91 /

!

45 /5</<45>1'475# : /. 76/# ?10. 1>/1=77<#4589;/5A/
75 /9/A 475'#15</2/A7??/5<';A.1'12/ /5 42/90 45 ./
2/>79; 475 6245A469/ / .1>/ 94 9/ 5/ : 'E' 42245= 18
62/'/5 @; : .1 4'' @;49 6;2/90 ;675 ./12'10 8 : /
?10 @/94/>/ .4'# ./ 129 78 /?0'' : 499 @/ ?1</ 75/
78 ./ 6245A/&'' A7;5A49 42 $7.5 79915<# 75/ 78 ./
67' ?1' /2'# 15< 2 ;44A.# A7?6 2799/2 42 49941?'G
05<941?' 4'' 7 ?1220 1<0 1 ./245/ /0?7?B# 15<
42 4A.12< E 42 49941?&'' '4' /2'E ./ ;C/
78 218 75 4'' >/20 1''4<;7;'' 1@7; [+' '' 54=. # 15<# '
./12# 1AA7?6150'' ./2 7 ./ ?// 45= ?7' ;5<10'# 45B
./ 18 /25775# @; A1557 0/ =145 .4'' 6745 ./ 4''
: 72 .# ./0 '10# : 4 .7; '' 2/ A.45= ./2 872 ;5/#, #]
./ 624'75/2'' 78 ./+ 194'@;20 12/ 75 ./42 : 10 7 7 : 5
./ 7>/5;5/5 45 A7 915< A75 45;/ 7 A199 45 ?150
';'6/A /< 6/2'75' ./ ;C/ 78 .79/ 4'' ';??75/<
7 ?1C/ .4'' 166/1215A/# 57 B : 4 .' 15<45= ./ 69/1<'' 1
=2/1 45<4'67'4 475 : 7 78 5'' </6/5</5 '' 12/ '/A?&/<#
15< 72</2/< 7 @/ @27;=. 7 75<75 872 ./42 /O127451B
475 0 7;2 91'' 9/ /2'' 78 ./ 2< 45' # 42 /72=/
05= 15< <?421 1C/2 :/2/ @7 .45 ./ 2D .# 15<
2/1<0 7 '149 872 ./ 7B:5'' @0 ./ 842'' 8142 :45< ./
;C/ 78 129@727;=.# 4 4'' '';667'/<#B:499=7 7 157>/2
:4 . 245A/ ;=/5/# 7 A75A/2 ?/1';2/'' 872 ./ /5';45=
A1?614=5# ./ 1 /'B /5/219 .1>45= :24 /5 1'9/ /2 7
</'42/ ./2 1D/' 0 .4'' 21A/?10 57 2/ ;25 7 5=915<
@/872/ ./ 76/545= 78 ./ A1?614=5 #

F '*9' 97 5-1' <@;+B E-,*-,?C,4+

H 7;2 7@/<4/5 ''/2>15 #

H $ #

H 42 7 /2/99 .1''@//5''/5 :4 .'1'9/ /2 827?' ?0
72< ;5</2915< 7 872@4< ./ ?@1''1<72 78 !/54A/
.1 A7;2 .4'' ?72545= .1<B:4 .'?/''/>/219 ?/2F
A.15 '# :.7 :/2/ 19C45= 78 ./ 184275 6;';675 07;2B
72<'.46# 15<45 4?1 45= .1 ./0 .76/< ./ 2/6121 475
07;2 72<'.46 :7;9< </?15<?4=. '@/ ./ 82//'4?672 B

45=' 78' 98A94'.' A97 .# 72V'7?/ .45=' /9'/' 45' 81>7;2' 78'7;2'
+:77 /5' 5∩45;81A ;2/' ' ./' '1?/' 4?/' ./0' .76/<'
07;2' 72<'.46' :7;9<'57'9/' ./' !/5/ 415''' '//' 150' <4'F
69/1';2/' 7' ./' ?/2A.15 '# 4' @/45=' 1' .45=# 1'' ./0'
62/ /5<# 621A 4'/<' />/20' <10' 27:5&'' 81 ./2' 4'' 1' ?15'
' .1' <7/'' =4&/1' '/2>4A/' 45' ./' A4 0# ;5<' 4'' ?;A.' 45' 81B'
>74;' :4 .'07;2' 72<'.46&'' 824/5<'' ' .7;=.'4'?0'<; 0'
7'9/'07;2' 72<'.46' C57:' .;'' ?;A.'J 15<# ./2/872/# '
.76/' 07;2' 748<'.46' :499' /OA;'/' ?/# 4' @/45=' 7590' </F
'4=5/<' 872' 624>1 /' 45872?1 475 I

72<' 15A./' /2&'' 1 /?6' 7B' 4?672' ./' ;54>/2'19'
?;'4A415# A75A/2545=' :.7?' ./' <4'A74;'/<' :4 .' ./'
;A./''' 78' 129@727;=.' 45' 1' 64+A/<45=' 9/ /2# :1''
;5';AA/''8;9' ./' 2/690' 78' ./' <;A./''' 18872<'' ;'' 1'
=94?6'/' 45 7' ./' 648>1 /' .8/' 78' W;//5' 55/ * :.7' :1''
77' @;'0'72' 77' A12/9/''' 7' 94' /5' 7' ./2'7:5' @15< * 15<'
:.7'.1<' 57' .7;=.' 78' ./1245=' 15<' 61045=' 5/:' 6910/2'#
.7:/>/2'=2/1' ./42'=/54;'' 15<'>1'' ./42' 'C499# 499' './'
.1<' 94' /5/<' 7' ./2'7:5' H'?;'4A#I' 72'@15<# ./' ?//?@/2''
78' :.4A.' '//?' 7' .1>/' /5D70/<' 1' '45/A;2/'(*

' ' %c' ' ' ' ' '

' 2

; ' + # C-;)' $%

H' ' 1?' /O 2/?/90' 1'.1?/<' 7' .1>/' @//5' '7' 975='
:4 .7;' .15C45=' 07;2' 72<'.46' 872' ./' .757;2' 78' 07;2'
9/ /2' 78' ./' 3 .' 78' 12A.# :./2/' 07;'''//?/<' 7' </'42/'
15' 15':/2' '775/2) @;# 45<//<# ' .1>/' @//5' 45' 1' 6/2F
6/ ;19' .;220' />/2' '45A/' ' .45C' 57 .45=' 4'' ?72/' :15 /<'
45' .4'' A7;5 20' .15' ';A.' 1' 6/2'75' 1'' 07;2' 72<'.46'
</'A24@/')' @;' ./' J;//5' .1'' '7' . 9/' 4?/' .1' './'
5/>/2' ./12<' 150' 78' ./2' 7:5' ?;'4A# 1?75=' :.4A.' './'
.1'' '7?/' .1' 4'' >/20' =77<# 15<# ' @/94/>/# './' :499' 57'
A12/' 7' 1C/' 150' 5/:)' .7;=.' :.1' .4'' =/5 9/?15' 627F
67'/'' 4'' >/20' 94 9/' 872' 1' ?15' .1' A15' /5 /2 145' '7' ?150'
:10'# 15<' ' '.7;9<' .45C' 4' :7;9<' @/' >/20' :/99' :72 .'
' ' I

? /5 475/< 45 ! 15@2 ; = . & 9/ /2' # 15< : . 1 < 4' A72< 127' / 7 ; 78 . 4' 4412 ? 7547 ; " 12215=/ ? /5 # 15< : . 1 / 64=21 ? : /2/ 842/<a 1 15< 1@7 ; 4 # 827 ? : 48 <7 : 5 7 . / 97 : / ' : 24 /2 : . 7 A7 ; 9< 1= 1 2 . 0 ? / 15< 8 ; 254 ' . 15 4</1# 4 C57 : 5 7 ; " 19M 5 /4= . 0/12 " . / ? 75/0 : 1 " '6/5 # 15< . / 7019 A1</ ? 0 78 ; '4A 1 15 /5< ; . /2/# ? /15 : . 49/# 45 W ; / /5 55/& <10' # ; 5 ? 45<F 8 ; 9 1 " ' . / 4 " 78 ' : / / ' 7 ; 5<" . /2' /98# 1975= . / A27 : </< 15< 51227 : 215<# ? 10 @/ ' / /5 ? /5 <2/ ' / < 45 @271< A97 .# 15< 07 ; 5=/2 ? /5 ? 72/D1 ; 5 490 15< ? 7<4' .) 15< '7?3 .1>/ 45' 2 ; ? /5 " ; 5</2 . /42 12 ? '# 15< 7 . /2 " .1>/ 45' 2 ; ? /5 " 78 ' ? 199/2 @ ; 9C 45 . /42 67AC/ # 15< . /0 12/ : /5<45= 7 1 1>/25# : . 7 '/ 51 ? / 15< 97A19 .1@4 1 475 .1>/ @ ; > /20 2/A/5 90 <4' 166/12/<# . / H 27 : 5 15< 5A . 72 I .49/ . / ; A . / ' " 78 149B @727 ; = . 4 " 6 ; 45= 788 . /1245= A75A/2 " 499 77<' 7AC 4 " @ ; 49 # 15< A199/< E " & . / ' / 75<75 A4 4K/5 '# 6278/ ' '72 " 15< 1 ? 1 / ; 2 " 78 . / ; 5/8 ; 9 12 # 2/ ' 72 7 . / H 27 : 5 15< 5A . 72 I 7 621A 4 ' / 15< 627 ? 7 / 4 . /0 A12/ 57 1 (872 07 ; 2 15</9 " 15< ; 7575A454 ") . / ' / ? 7</25 A7 ? 67 ' /2 " 12/ : . 466/2 " 78 ' 0991@ ; @ 45 . /42 / ' 4 ? 1 475 . /0 A ; 9 4>1 / 15< 62/ ' /2>/ . / : 72C " 78 H 79< ? 1' /2 '# I 15< =4>/ . 9/ A75A/2 " 57 : 15< . /5 78 >/20 15 4J ; / ? ; '4A# 7B : . 4A . / 6 ; @94A 4 " 1<? 4 /< 872 1 ' ? 199 8//# 15< 6 ; 267 ' / 78 =2/1 / 5D7OF ? /5 5 . 4 " 4 ? /B . 757 ; 2/< 79< 1>/25 : 1 " 7 @/ 87 ; 5< . / A21<9/ 78 . / H 5A4/5 75A/2 " I * A75A/2 " : 944A . : /2/ @725 45 . / 215<# 15< 18 /2 1 61 2751=/ 78 27019 0# 57@4 . 0# 81' . 4751@9/ A7557 4 ' ' / ; 2 '# 81' . 475B 8X@9/ 1 ? 1 / ; 2 '# 15< 81' . 4751@9/ <; 5A/ '# <4/< 7 ; 1 1 =77< 15< ? /997 : 79< 1=/ 45 42 $7 . 5 19 . 54& 277 ? " 45 157>/2 J ; 12/

. / 1@7>/# 15< '7 ? / 7 . /2 9/ /2 " 45 . 4 " A799/A 475#& 45<4A1 / . / ' 2 ; ==9/ : . 4A . ? ; '4A . 1< 7 / ' 1@94 ' . 4 ' /98 . /2/ ; 2A/99# : . 7 . 1< @ / / 5 </1< @ ; . 42 / / 5 0/12 " : . /5 . / ; A . / ' " : 27 / 7 72< 15A . / ' /2# 872/ ' 1 : . 4 '# 15< 2/ ? 12C/<# @/872/ . / 61 ' ' / < 1 : 10 7

' ' "

@ ; ' 75187' : 499' .1>/' 72</2"' 7' ?1C/' 1' 8142' ' 720# @ ; ' c'
' .76/' 5747<0' :4 ' <7' ?/' ./' 45D ; ' 4A/' 7' @/./>/' ' 1?'
A161@9/' 72' <7?=' 150 .45=' 45' 1' ?1 /2' 78' .4"' 51 ;2/
@ ; ' : .1 '4"' 24=.

ć ' 1?# bA l

7' .4"' A7??;54A1 475' <<4'75'2/ ;25/<' ./' 87997 : F
45=' 2/690# 45' : .4A.' 4 ' : 499' @/' '//5' .1 ' 150' '94=. ' 7'
W;//5' 55/# ?1</' .27;=.' ./2' 2/62/'/5 1 4>/# :1"'
>/20' 627?6 90' 2/'/5 /<' @0' ./' ?454' /2"' : .7' : /2/' ./'
A75' 4 ; 47519' =;12<415"' 78' ./''7>/2/4=5&"' .757;2' (*

' ' '

' 5J ' ' ' C-;)' ' $%

' ' * ' .4"' ?72545=' 2/A/4>/<' ./' .757;2' 78'
07;2' 72<'.46&"' 9/ /2' 78' ./' 3 .' 45' # :4 .' '/>/219'
7 ./2"' /5A97'/<' 45' ./' '1?/' 61AC/# 1 ' 78' >.4A.' '
4??/<41 /90' </'61 A./<' 1AA72<45=' 7' ./42' 612 4A;912'
1<<2/''/'# 15<' 1?''45A/' 79<' @0' ./' ?/''/5=/2' .1 ' ./0'
: /2/' </94>/2/<' '18/
H ' ./12' ./' !/5/ 415' 1?@1''1<72' 2/A/4>/<' ./'
?/''1=/' @0' 42' .129/"' 7 /2/99' :4 .' >/20' =2/1 '
;5/1'45/''" 15<' '7?/ .45=' 94C/' 2/'/5 ?/5 ' /' :1"' 1 '
.1 ' 4?/' A75845/<' 7' .4"' @/<# 15<' 4"' ' 499' >/20' ?;A.'
45<4'67'/<' '' ./' 4"'U45' =77<' /' //?' 1 ' A7;2 ' 872' .4"'
45A.51 475"' 7' ./' =215<' 19.15A/# ?0' 72<' ;5</2915<#
18 /2' .1>45=' 872@4<</5' .4?' ./' A7;2 ' 75' 1AA7;5 ' 78' 1'
.4=.' 45<4=54 0' 784/2/<' 7' ./2' 1D/' 0' 45' ./' 6/2'75' 78'
./2' 1?@1''1<72# 9/ ' .4?' C57 :' .1 ' ./2' 1D/' 0' .1<' 1'
=2/1 ' /' //?' 872' .4"' 6/2'7519' ?/24 # 15<' .1 ' ./' .4?'/98'
:7;9<' <4' 45=;4'.' @/ :///5' .4"' 6;@94A' 15<' 624>1 /' A.1F
21A /2# 15<' @/' =91<' 7' <7' .4?' 199' ./' '/2>4A/' .1 ' 910'
45' .4"' 67 : /2 ' ; ' .4"' 7590' 7' 07;2' 72<'.46# :.7# '
<7;@ ' 57 # ?;' ' .1>/' 1' A;247'4 0' 7' C57 :' 199' ./' 612F
4A;912"' .1 ' 61''" 45' 944"' 14 142
H' ./' 612941?/5 ' :1"' .4"' ?72545=' 62727=;/<' 872' 1'
872 54=. # 15<&' 4"' ';667'/<' :<9' @/' ';<</590' <4''79>/<

D;' 4A/' : ./5' 4 ' :1'' A914?/<' 1'' 5=915<' A7;9<' 57:' A914?' 4 ' E 72' 42Y/' =/5/21 475'' ?72/# .1 ' H' J;//5#I' 72' H /1' r @/9/#I' /5<;2/<' 72' /5D70/<' ./' 2/6;@94A15' 1<?454' 21 475# 1'' 4H) :1'' :944?'4A1990' A199/<# 78' 1' 7=/' 15</15' E794=12A.0N' ' 9/5= .'A1?/' ./' />/5 8;9' 0/12' , , * # # 0/12'' '45A/' 518/' 7B:1'' .149/<' 4 '' 842'' 7=/' 5' ./' A/5 ;20'D;' ' 51?/<# ./' 7=/'' A/1'/<' 7' @/V .`' 2/5A.' :/2/' 45' 190# 15<# @0' ./' 2/1 0' 78' 1?67' 72?47# ./' !/5/ 415' /224 720' :1'' <4>4</<' @/B>0//5' 215A/E 15<' <' 241(' 1' ./' 91 /2' 67:/2' :1'' 1:12</<&199B ./' /224 720' 7.' ./' 44~2 .' 15<' :E/'' 78' ./' <4=/E# .E/' 2/45145<W2' :1'' 1@'72@/<B' 45 7X' :.1 ' ./' 2/5A.' 6!/2546/5' 78# .Y' <10' ' 09/<' ./' 4'19645/' /6;@.A8' E 4=.' 0/12'' 91 /2'B .4'']42215=/?/5' :1'' '/' 1'4</# 15<' 45' Q -# ./' 2/1 0' 78' 2/'@;2=' ?1</' 7>/2' ./' :.79/' 78' ./' /224 720' 78' !/54A/' 7' ./' C45=<7?' 78' 190' 87?' ./' C45=<7?' !/54A/' :1'' '/>/2/<' 45' Q # '45A/' :.4A.' 6/247<' '. /' .1'' 9145' ;5</2' ./' .//9' 78' ;' 241' 198' 1' A/5 ;20' .1'' :/9954=.' =75/' @0' '45A/' ./5# 15<' 57:' ./' W;//5' 78' ./' <241 4A' 4'' 1=145' A914?/<' @0' ./' C45=<7?' 78' 190' /2' A75<4 475' 57:# A7?612/<' :4 .' :.1' 4' :1'' <;245=' ./' /?@1''0' 78' 72<' 15A./' /2# 4'' 1' .;?4941 45=' 75/' 5' ./' 2/4=5' 78' W;//5' 55/# !/54A/' 1' 9/1'' 7@/D?<' 1' 51 4>/' 1; .724 0') 45' ./' 2/4=5' 78' !4A 7241# '. /' <7/'' 57' />/5' ;5</2' 15<' ./' 75=;/' 78' ./' 872/4=5' 0215 '' @0' :.7?' '. /' 4'' 7662/''/<' 27?' A75'4</21 475' 78' ./''/' ?1 /2'# .7:F />/2# :/' 61'' 7' ./' 76/21' 15<' ;</512</

005

72<' .46# 7 1>74< '1045=' 150 .45=' 75' .1 ' ';8/D/A ' .1 ' ./0' : /2/' : 24 ' ;675# 15<' : 499 7590' '10' .4'# 941 ' ' .1>/' @//5' ?72/' .15' 72<4512490' ;5872 ;51 /# 48' 4+0' A75<;A ' 7 : 12<'' 07;2' 72<' .46' .1'' 57 ' @//5' 1=2//1@9/' 7 07;' ' <12/' '10' 07;' 12/' ./' 7590' ?15'45' 5=915<' : .7' .45C'' ' .1>/' 57 ' 1A /<' 1' 24=. ' 15<' 1' =77<' 612 ' 7' 72<' 15A./' /2 ' ' .1>/' 975=' @//5' '/5'4@9/' .1 ' ./2/' : /2/' .7'/' : .7' <4<' </'42/' : /' '.7;9<' 57 ' @/' : /99 7=/ ./2)' @; ' 9/ ' ./42' 4589;/5A/' @/' : .1 ' 4 ' : 499# ' A1557 ' A.15=/' ?0' 45A9451 475' 7' 07;2' 72<' .46# 15<' '.199 19 : 10'' /'F 67;'/' 07;2' 45 /2/' ' 15<' 627?7 /' 07;2' =77<' 1'' 812' 1'' ' 1?' 1@9/' 72' 1997 : /<' 7' <7' 4 ' 675' A2/1 475' 748 .4'' 45<4=54 0' .1 ' .1'' @//5' 6; ' ;675' 07;2' 72<'9446' 1 ' !/54A/# ' 7?4 /<' 57 .45=' .1 ' ' A7;9<' <7' .1 ' 07;' ?4=. ' @/' ';6672 /<' ./2/' 1'' 07;' 7;=. ' 7' @/' ' <7'57 ' <7;@ ' @; ' 72<' ;5</2915<' .1'' 8;990' 45872?/<' 07;2' 72<' .46' 78' 8./' ' /6'' .1 ' .1>/' @//5' 1C/5 ' ./' 9/ /2' ./' G&O4 ' 7' 62/>/5 ' ./' ! /5/ 415' 1?@1''1<72' A7?45=' 7' A7;2 ' :1'' >/20' ' 275=90' : 72</<' 8 /2 : 12<'# 1 ' ./' 1?@1''1<72&'' </'42/# ./' ?1</' .4?' 1' >4'4 ' L@; ' ./' 62/ /5<45=' 7' @/' '4AC# C/6 ' .4'' @/<M# 15<' 19C/<' >/20' '7;5<90' 7' .4?# 15<' '.7 : /<' =2/1 ' 2/''/5 64/5 ' 1=145' ' ./' ''/51 /' B 5' ./' Q .# ./' 1?@1''1<72' 6; ' 45' 1' 975=' ?/?72419# '/ 45=' 872 .' 199' .1 ' .1<' .166/5/<' 1 ' ! /54A/# 15<' A7?6914545=' 78' ./' 45821A 475' 78' ./' 91 : '' 78' ./42' 2/6;@94A' 15<' ./' 2;9/'' 78' ./42' A;' 7?B.7;'/' @0' 07;2' '/2>15 '# 15<' ?1=548D<5=' ./' 2/'6/A ' ./0' .1<' 614<' 7' /2' 1D/' 0# 45' : .1 ' .1<' @//5' <75/' 7' ./' 7884A/2'# 15<' </'4245=' .1 ' 07;2' 72<' .46' '.7;9<' @/' <42/A /<' 7' 7 : 5' ./0' .1<' =4>/5' '1 4'81A 475' 192/1<0' @0' 4?624'7545=' /9/>/5' 7884A/2'# 15<' .1 ' 07;'' .7;9<' </'42/' 7' .1>/' ./?' '/ ' 1 ' 94@/2 0 ' ; ' .4'' ?/?72419' .1'' .1<' 57' 7 ./2' /88/A ' .15' 7' .1>/' ?0' 72<' ;5</2915<' 72<'/2/<' 7' ?1C/' 15' 15' : /2' 7' 4 # 45'4' 45=' 75' 1' 6;@94A' '1 4'81A 475 ' ';667'/' ./0' : 499' 215'?4 ' ./' ?/?72419' 15<' ./' 15' : /2' 7' 07;2' 72<' .46# 15<' ' ?;'' 5//<'' '10' />/20F @7<0' 4'' <4'67'/<' 7' ';6672 ' 07;2' 72<' .46' 45' .4'

V% %

78' A7;2'/' A1?/' <4'A72<B' ./' ;C/'78' A 9872<#'75' 78' .4?' :.7' <2145/<' 1:10' .4'' 872 ;5/' .27;=.' ./' H /<872<'9/>/9I'45' ./' 45A795'.42/'8/5'#9/8'84/'<4A/#@0' :.4A.'./'.76/<' 7'2/ 24/>/' ./'872 ;5/'97'# 7'.' /5 7' 2/@/2&'' {=' 7 45=.1?#' ./''75'78' ./' 72<'' //6/2# 8/9'216 ;2/'1'./2''.1C/#15<#1'' ;=./''2/?12C'

>)).1'?+*+,?9,0'9,)+,1'*))'+B,;-'1-5@?7'4*-,?'
8' 0;O)*01[e'?*8,+7';0' +*);*0'*;-?

;' 78''.1<'./2'1<72/2'' 77' ./' ;C/'78' />75F '.42/'97>/<' 2'' 78'&'' >74A/'1'' ./'18/2:12<''<4<' ./' >74A/#15<'6/2'75' 77#78' 4'' 1?6475')15<'./'H'627;<' ;C/'I'78' J?/2'/'A7??/5</<' ./''1?/' 24 4'.'57/'# @;':7;9<' 57' :49945=90'610'872' ./?':4.'57/'' 827?' .2/1<5//<9/' 2// ' ./'/'./1</<' ./'612 4/''7a16//2'' :.7'A27:</<' 7' ./42'2/'6/A 4>/'/A'1 4A'D70'#15<':.7' ./1</<' 81A 475'#' .15' :.4A.' ./' '1=/' 5/>/2' C5/:' 84/2A/2#'1>/' .7'/' :.4A.' @74' /27;'90'A758275 /</1A.' 7 ./2'872' 1;'451'15<' ;KK754

./5'N O'' 78''15<' 12=./24 1'' '15='1' ./' '1?/' .7;'/#75' ./' '1?/' />/545=#75/'45' 5=.'.' ./' 7 ./2' 45' 19415#' ./'A758;'475#45'1'<7;@9/''/5'/#D>1''A1224/<'7' 4''./4=.#15<' ./'</.=.' :1''45A2/1'/<'627672 4751990' 45' 45 /5'4 0' ' 2;20' 15/#' ./2/' 87997:/<' 5=94'.' 76/21'#45' ./' 19415''09/')15<''; @'/J;/5 90' ./'' 215=/' 1<?40 ;2/#45' :.4A.' 5=94'.' '45=/2'':12@9/<'45' ./42' 51 4>/' 75=;/' 7' 19415'>7A194' '#:.7' 2/694/<'45' ./42' '78 /2' 72' '.2499/2' 1AA/5 '# 1AA72<45=' 7' A42A;?' 15A/'# 15<' ?/97<47;'' 78 '# 1'' 1?4991#:1'' 15':/2/<' @0' ?/99489;7;'' ! 19/5 454#1'' ;25;'

' ./' 4?/' ./'5/O'9/ /2':1'':24 /5# 2'' 78'':1'' ?' ./'91'' 0/12'78' ./2'A12//2#62/>47;'' 7' ./2'?12241=/' :4.' 2' ?4.#A75';9'1'!/54A/#./2'848 0'0/12''78'2/F 42/?/5#15<'1'975='6/247<'78''.1 /2/<'45 /99/A#<;245=' :.4A.''./':1''872' />/2''45=45='51 A./''78''75=#.C/' ./'8142' 6./941

"'!19/5 454':1''D/197;'' 78' ./' A7?45=' 78' 4A79454

24?19<4 +1' .4' 9/ /2 45<4A1 /' ./ D/197;'0 :1' 1 45 >145 872 4A7945 1224>/< 45 75<75 45 ./ 91 /8 612 78 8/ 0/12 ?1C45= .4' 842' 166/1215A/ 45 ./B 10?12C/ 7;'/ 1' 02284; D 45 V 4227 / /54/ 247&E 15 76/21 87;2 //5 0/12' 79< A7?67'/< @0+ A1291 4 12215=/<872 5=915< @0 1025 184< 215'91 /<487?B 72'/ 4 @0 :45/0 .4?'/98 .1 4' '10 215'91 /< 1 812 1 215'91 475 :1 2/J;42/<872 ./ 5=94'.''?=/2' 77C/ 1?75<75 15< 4&' 78 ' :.7 '15=D; ./42 >/?+4A;912) :.49/d 12=94/24 1 1 12751 !19/5 454 15< 4A7945 '15=45 19415 ./ 2/';9 :1' 1 =2/1 '';AF A/'' 15< 72< 15A./' /2 :1' .15C/<872 '/5<45= 7>/2.4 ./275/ 4A7945 24?19<4 :.7 '10' 2 4AC/2B '188 H @0 ./ =21A/ 15< 627624/ 0 78 .4' 1A 475 15< =/';2/ <7/' .757;2 7 ./ .;?15 84=;2/) 15< '/ ' 788 ./ A.121A /2 ./ @/12' 45 15 76/21 @0 .4' 1A 475 1 ?;A.'1'. / <7/' ./ :72<' 78 4 '@0 .4' >74A/ >/20 94?@ 15< />/20 845=/2 I 1<<' ./ V 1 9/2 H A75 24@; /' 7 ./ 612 ./ 1A ' 45'7?;A. .1 1' LD/18 ?15 ?10 =7 1975= :4 . .4?' 45 ./ '/5'/ 78 4 .2/ 4' 'A12A/90 1 @/1; 48;9 67' ;2/ 45 15 79< ' 1 ;/ :.4A. ./ <7/' 57 6915 .4?'/98 45 1' ./ <488/2/5 A42A;?' 15A/' 78 ./ ' 720 =4>/ 7AA1'475 872 4 / 6/2872?' ./ ?7' 72F <45120 1A 475 45 1 ?155/2 ';4 1@9/ 7 ./ =2/1 5/'' 78 .4' A.121A /2 15<'.7:' ./ 6245A/ />/5 45 ./ =4>45=78 1 9/ /2 72 </'61 A.45= 78 1 ?/''/5=/2 I 4A7945 4' 8;2 ./2 </'A24@/<1' '//?45= :./5 1975/ 7 8499 ./ ' 1=/ ';A. :1' .4' =2/1 5/'' 78 142 15< ?4/5 15< ./ ?1D/' 0 15< </?/157;2 :.4A. A7??15</< ./ 1 /5F 475 78 ./ 1;<4/5A/

./5A/872:12< 19415 76/21 @/A1?/ 15 5=94'. 45' 4 ;475 V 4227 / /?/247& :1' ./ 91' ?;'4A19 <21?1 .1 :1' />/2 1A /< 15< '4?= .198 45 5=.'. 15< .198 45 19415 ;7575A4548' V 9?1.4</& 879F 97:/< :4 . 1 8;99 1.15 A7?6150 15< 5=.'.''45=/2' :7;9< .1>/ 87;5< ./42 >7A1 475 =75/ .1<57 15</9 A7?/ 7 5=915< =5< =97247;'90 A7??/5A/< .4' 84' 78

.42 0B84>/ 76/21'# A7?67'/< 872 ./ 5=94'.+=/#>< .
* * .4" 81?7;" 4519<7 &

+ * *7 $%
* .1>/ :7 9/ /2" 827?07;2 72<'.46
78 ./ 3 . 12A.15< . 6249# 15<1?L1" :/99 1"
./ 7:5 7@.=/< 7 07; 872 ./ /5</1>7;2" 07; ;'/<
7 4?627>/ ./ 76/21 ./2/ .1 07;2 72<'.46 '10"
78 .1>45= 75/ 72 :7 78 ./ 76 >74A/" 4" A/2 14590 24=.
" 7 ?0'/98# .1>/ 612 /<:4 .?0 :.79/ A75A/25 7
DR 2 :45/0# 7590 2/'/2>45= ?0 2/5 # '7 .1 ./ 4" /5 42/
67''/''72 78 ./ 76/21# 15< ?7' 6/769/ .45C :499
?151=/4 @/ /2 .15 150@7<0 / .1" 1 =77< </19
78 ?75/0 45 .4" 67AC/ # .1 ./ =7 @/872/ @0 ./ 1A 45=
A7?6150) 15<4" :49945= 7 >/5 ;2/4 ;675 ./ '45=/2'
.1>/ @//5 '/>/219 4?/" 91 /90 :4 . .4?# 45 A75';9 1F
475 :4 . ./&!4A/B .1?@/29145 7C/ L:.7# @/45= 1
=2/1 97>/2 78 ?;'4A 15< 627?7 /2 78 76/21'# ?0 72<
.1?@/29145 9/1>/" .1 ?1 /2 19?7' /5 42/90 7
.4?M " .1>/'1AJ;145 /<.4?:4 .:.1 07;2 72<'.46
:24 /'#15< ZC42 :45/0.1"/5=1=/<@/872/.4?7 1997 :
1 .7;'15<67;5<" 872 4A7.54 7 ' 10 ./2/ :7 :45 /2")
.1 4'# 7@/./2/45 /6 /?@/2# 15<1 94@/2 0 7=7 1:10
1=145 ./ 10 A7?/ :/9>/ ?75 ." 18 /2 .7;F
'15<67;5<" ?1C/'# .45C# 1@7; # 64' 79/'# :.4A.
;5<7;@ /<90 ./ ?10 A1220 1:10 A9/12 45 .4" 67AC/)
872 ./ A15& 8149 78 1<>15 1=/" 7 ./2:10" ';884A4/5 7
</8210 .4" /06/5'/" 7>/2 15<7>/2 " 872 15 454# [R 2
:45/0 788/2" ./ '1?/ A75<4 475" 7 ./2# 48 07;2 72<B
'.46 A15 62/>149 :4 . ./2 7 A7?/) 72 48 '. / :75&# 15<
07; .45C /=4151:7;9<<7 1" :/99# ./9/1>/"4 7 7 07;2
D;<=?/5 # 15<:499 1997 :./2 ./ '1?/ 8 5/4 ./2 78
./'/ :7?/5 >499 A7?/# ./ :7;9<>/5 ;2/1 .198 .4"
1997 :15A/# >4K # 3 64' 79/"L72 '7?/ .45=?72/# 1" 07;2
72<'9446 '.199 .45C 2/1'751@9/M# 872 ./ :7 :45 /2'#
48 1 07;5=4?627>45=:7?15 A15 @/87;5< .1 .1< 1

=77< 6/2S 15< 1A 475# 15< .1 ? 4=. @/ /' //?/< 1"
=77< 1' '45=/2 1" 12=124 1 8 07;2 748<'.46 A15=/
150 78 ./'/ 6/769/ 7>/2 75 ./ /2?"'./2/ ?/5 475/A9#
2 :45/0 </'42/"' ?/ 7 1''; 2/ 07; 78 6; 5A ; 19 6/2F
872?15A/ 75 .4"' 612 ') 572 4" ./2/ 150 2/1'75 7 <7; @
.4? * 872 ./ .1" @/.1>/< .4?'/98 '7 1" 7 =/ =2/1
A2/<4 45 .4"' </1.5= :4 . ./ 1A 72'# 15< C57 : ./
!4A/B .1?@/29145 <7/" 57 45 ./ 9/1' J; /' 475 .4"
?1C45= =77< 199 ./ 788/2" 75 .4"' 7AA1'475') @/'4</'# ./
.1" 67 : /2 '; 884A4/5 7 7@.=/ .4? 7 4 # ./ .7; '/ @/45=
7590 <; 245= ./2 1D/' 0&" 69/1'; 2/ .1>/ 57 0/
.1< 15 76672 ; 54 0 7 <4'A7; 2'/ ?0 1<0 129@727; =.
1@7; 07; 2 72<'.46&" 62767'4 475 7 ./2 872 15{1#@;
845< 57 <4'67'4 475 1 199 45 7 ./4X6/769/ 7 627?7 /
.4"' A7?45= 1 150 =2/1 /O6/5'/') 15<#@0 1 9/ /2 2
1D 79 /" .1" 2/A/4>/< 827?' .4?# 845< ./ /O6/A " 3
=;45/1" 1BO/12#E : .4A.' 4" 57 7 @/ .7; =. 78 & '4"
4>74A/"' 12/ ./ .45=" 1 62/'/5 7 @/ =7 # 15< 48 917'/
76 75/" A7?/ 7>/2&' : 499 81A494 1 /@245=45= ./ J; //5
45 7 1 'A./?/ 57 : 62/61245= @0 ?0 72< .1?@/29145
15< 7 ./2'# 7 941>/ A75A/2 " 78 ?; '4A 45 ./ '; ?? /2#
1 45<'72# :4A/ 1B: //C# 45 ./ 1612 ?/5 ' ./2/
4" 57 <7; @ @; # @0 '7?/ '; A.' :10 1" .4'# 48 ./ @/' '
'45=/2"' A7?/# ./0 :499 1' / 78 ./ J; //5&" @7; 5 0') 872
/>/20 75/ :499 '794A4 872 ./?# .1 ./0 ?10 =7 1:10
A75 /5 # 15< /5A7; 21=/ 7 ./2'' 7 A7?/ 7>/2 ./2/18 /2
7 .1 # .76/# ;675 ./ >.79/# 07; 2 72<'.46 :499 @/
78 7645475 07; ?10 '18/90 6/2'; 1</ 1 A7; 69/ 78 &/?' 7
1C/ ./ >701=/') 872 &4"' A/2 145 91/ 6/769/ 78 J; 194 0
? 845< '7?/ ?/15" 72 7 ./2 7 '/5< ./?' .7?/ 45
=77< .; ?7; 2 ?; ' =4>/ 07; 2 72<'.46 75/ A1; 475#
@0 ./ :10# :.4A.'4" .1 .1>/ =77< 2/1'75 7 @/94/>/
.1 ! 19/5 .44 L .7; =. ./ 62/ /5<'" 7 :4'. 872 4A7B G
9454&" A7?45=M :499#; 5</2.15<#<7 199 ./ A15 7 <4'A7; 21=/
.4?') 872 ./ .1" 945C/< .4?'/98 :4 . 2' 78 " L : .7 4"
:75</28; 990 4?627>/<M# 15<# 45 72</2 7 ?1C/ 1 =77<
@12=145 872 ./?'/9>/" 872 5/O :45 /2# :499 A/2 14590

6910 '7?/ 24AC 7 .45</2@7 . 4A7.54 15A+X1 :7?15 827?A7?45= 7>/2# 48 07;2 72<'.46 <75& 16624'/ &/?7 5& 79/?15 4 =745= 75 1 "4?@79 4 '.199 '/5< .4?. 4 67' ./ </'4=5 872 ./ ;66/2 '720# 45 :.47. ./2/ :499 @/ 87;2 @/<BA.1?@/2 15< =77< 1AA7??7<1 475 7 &/?# :4 .1 A7224<72 .1 2;5 ./ :.79/9/5= .@/.45< &/?# 15< :499 @/>/20 62/ 0+ 15< >/20 :/99 94=. /< .76/07;2 72<'.46 :4 '//:.1 :/ .1>/ <75/ @0 /6 /?@/2# :.4A.# 48 4 69/1'/ 07;# :4 ?;A.2/D74A/

H 7;2 72<'.46& ?7' 7@/<4/5 '/2>15 #

H$ 8

H 0 1<0 19@727;=.=7/ 57:>/20 78 /5 7 A7;2# 15< 4 45 6128/A =77< .;?7;2 .76/4 :499 C//6 24=. I

./ =77< :4'./ /062/''/< 45 ./5/0 9/ /2 :/2/# '7 7 '6/1C# ./ ./219<' 78 ;</512</ A12A/90 :7 ?75 .' 18 /2 4 :1' 6/55/<# ./ :4'./ : /2/ 2/1.'/< 5 ./ .' 78 $;90 ./2/ :1' 1 912=/ @/'4/=45= 872A/ @/872/ ;</512</ ./ ;C/' 78 ;2=;5<0 15< /220# 15< H$1?/' # 78 5=915<#I 1' ./ 842' 62/ /5</2 :1' A199/< 1 /2?145'# :4 . ./ ;C/ 78 !/5<|?/# :/2/ 1''14.5= ./ B691A/ ./ 78a>4A 720 .1< @//5# 872 1 ?7?/5 # 75 ./ 2/5A.'4</ ./5 15< 2;=/' .1<# 45 ./ 62/>47;' :/ /C# 8199/5 45 7 ./42 .15<' @0 ';J+24'/ 5< .4' 2/5A. @/'4/=45= 12'50# 27O199O A7??15</<# /1=/290 15< 4?61 4/5 90 /06/A /< 1 24;?6. 45 ./ 75'91;=. 1=145' ./ <77?/< A4 0# 1' ./0 .7;=. 4 # 78 ;</512</#

; 129@727;=. 15< 245A/ ;=/5/ :/2/ .1' /545= 7 A7?6/9 ./?. 7 214'/ ./ '4/=/ ./'/ =2/1 19./' .1< <4>4</< ./42 872A/' 75 A27''45= ./ A./9< # 15< 4 :1' 1 ./ ?7?/5 78 .4' <4>4'475 .1 !/5<|?/ 627F 67'/< 7 1 1AC 15< 'A1 /2 ./? ; ./ 62/'; ?6 475 78 ;2=;5<0 :1' ?72/ 67:/28;9 45 15 />49 <42/A 475

.15 ./ D94A9=?/5 78 !/5<|?/45 157 ./2 :10 ./ 62767'4475 78 ./91 /2 <;C/ :1 7>/22;9/<# 15< ./ '4/=/ :1 A75 45;/<

/0!"#%-#<#!-#- $320$0.9: !- .9#!#3# - !9"#$%#!! .<: /3#!- - "53# ": "#4<"#-"#: -%$ "0!01 "#$ #!#%# : # - #$ $#!<0.!"#$#- # <: 0"#$!# $"#: "0;!01 .-#! $-#;:#$#"#2 ""3# 1#$<#35<0!"# "#- :# 3-33 !-2$ #$5 01"#: 33# #$# /."0"#: # #$# "# "2."/$# 3#- 9 ! "#: 2 3"5 !-<0.$ 9# 01"#10# :#-#1# 01"#3 ""#$; <0%/3#"# !- 0.3-: # 2##!%0$#- "$0.": !" 2."10$"#: <0!D .%% "#N.-9%#!" ": : <: #!-0%#<0!-."#-"#: #$#"$# ./0!P:#!"$# <: !9 :Q:"#:#5 #$# #-1$0% "0" 3 -# "$.<"0! " ; "#:#530 # %#!! -" "!-$- ": 0"#$"$0/:#;: <:1#33 !"0"#: !-01"#<0!B.#0 :#3 ""#$/.$<: #-"#$"@.%/: "#: <0 01 '666%#!! >33#-!-;0.!-#-

:# !# 01": .<"0$5 $#<# #-! 0!-0!":#!": . %! # ;#: -9 "#$#-3 .$#3 930$0. "#:0 # 0!01 3 !-! "#: %0!": ! : <: 0$-!<:# "#$;0"# : 3#""#$ 0%%0-0$# A 9#$":: B. -$0! 01 0!35 10.$%#!HO1H $ "" <>#-# ##!"##! / ! :9 33 0! !# $ $": 9#! ! "#: A# "! -# R :# / ! : -% $ 3@ : / 3.#-"": $"5% 3:0! / #<# 01 # 9:" 230;! !"0":# :R!-":#$# $H -% $ 3 < /".$#-25":#<0%%0-0$#:# /$S#H%0!#5$# .3" !9 1$0% ": 2 ""3# !-":# !! !9 01 "; %%#! #: # <0%%0-0$#@ : $#30!# %0.!"#-"0 # # !-"0": 03 -9.#$-0! , --#-":#:0!9.$ #33H# $!#-01 2# !9$ #-"0":#$!>01 -% $N3

72 <7;@9/>4A 724/'.C/ ./'/ ./2/ 6*? 1 <7;@9/ D70# 15<# 872 1 '/1'75# ./2/ >/2/ 57 51?/' 62757;5A/< 6;+B ?72/ =91<5/''45 75<75 .15 .7'/ 78 129F @727;=.# ;=/5/# 15< ./ =19915 7??7<72/ 1=/2

?50 ?,4-ok*-7 +5 +B, , 9=*??7 +5 +B, ,0,+;*0 *9=*??*M PP;;
15-? ,;? >01,-?59 ,E-,*1;?C),*?>-, +B*B, B*?
E50, *@*7 *01 05 50, D05 6? 6B,-, 59 , =,);,6,
JNB*B, 6*? 9*1 *01 B*?),8+ *)) B;? +B;0E? =,B;01);;9
B, ,0,+;*0 *9=*??*15-*C-,?,0+;? 6,;7 9>4B ;01;?M
C5?,1 N =>+ ;8 4*0 1,);6,- +B, =5P +5 *07 58 B;?
E,0+),9,0 ;0 B;? C-,?,04, *01 +5 B*6, B;? -,4,;C+ 85-
;+ ?B*)) 1,);6,- ;+ =>+ *9 *8-*;1 +B*4*005+ =,
150,N ;8 05+ .)) D,,C +B, =5P +;)) B*6, *?;9, 5CC5-M
+>0;+7 +5 ?,01 ;+ B;? 1*7 B*6, C*;1 +B, 8;6, E;>0,*?
+5 5>0+ *))*?:?,4-,+*-7 ;?0*9, ;? -;95+7N ;+ 6*?
B, +B*+ 5-1,-,1 +B, ?*9, 950,7 +5 =, C*;1 B*6,
B;? -,4,;C+ 5;> B505>- D05 6? =,85-, +B;?8;-59 75>-
17 +B+ 97 *17 >47 ;? 1,*O) 50,7 459,? ;0
6,-7 ?)5@ 5>+ 58 +B, 45>0+-7 *01 +B,-, ;? E-,*+ 459M
C)*;0+? B5@ ?4*-4, 950,7 ;? +5 =, B*1 ?B5;11 =,
E)*1 +5 B,*- +B, E551 ;;, 6? 58 75>- B505>-.? 459;0E 85-
0E)*01 B*6, ?+;)) +B, E551 85-+>0, +5 C),*?, 97
17 B>9=)7 =,E 75>- B505>-.? C-150 +B*+ *9
97 5-1 75;> B505;9.? 95?+ 1>+;8>) ?,-6*0+
H 57' !

H .1>/ 05+ ./12< 150 .45= 78 2 -5 60 0
1<0 15< 199 07;2 .757;2&81?490 12/ :/99 I

E);9C?, 78 B59 , *01 ;+? ;0B*=;+*0+? ;? *885-1,1 +5
+B, *=?,0+ *9=*??*15-;0 +B, *00,P,1),++,-58 0, LO? S

A U ` ` A>0, $%

S *7 ;+ C),*?, 75>- P4,)),047 +5 *44,C+
58 +B,?, *? *0 *0? 6,- +5 75>- 5-1?B;C.? 4599*01?
8+,- * 1*0E,-5>? C*??*E, *+ ?, * ^=,;0E 4)5?,)7 4B*?,1
0;EB+ *01 95-0 =7 V 6, @,-, 5=);E,1 +5)*01
0,*- *-95>+B *01 ;0 97 6*7 B59, *+ C? 6;4B B*CM
C,0,1 +5 =, ->0 +B-5>EB +B,), E B, C*-+;4>)*-? +55
)50E +5 +-5>=), 75>- 5-1?B;C =>+ +B5>EB+ ;+ 0,4,??*-7

7 ? /5 475 4 # 7 /OA;'/ ?0'/98 57 1 /5<45= : ./5 07;2 OA/9[/5A0 A7??15</< ?/#@/45= 7@94=/< 7 C//6 ?0@/< ?72/ .15 1 : //C 915</< 75 10 3 .# 1224>/< ./2/ Q .# : 14 /< 75 ./2 21A/ ./ ;A.//'' @a 129@727;=. ./ .# : 4 . ./ 61 /25'# 15< ./2 21A/ 79< ?/ ./0 69/1'/< ./2 /O 2/?/90# 15< .1 ''./ : 7;9< =4>/ 07;2 72<'.46 ?72/ 27;@9/ 1@7; ./? ./ '1?/ <10 : 14 /< 75 ?0 1<0 ;8879C# 15< ?0 1<0 75# : .7 '//?/< : /99 69/1'/< 7 ./12 78 07;2 72<F '.46&' ./19 . 10 '' : 14 /< 75 ?0 1<0 15F A./' /2# 1 //<'# .1>45= 57 ./12< ./2 1<0'.46 : 1'' ./2/ 4 ''1: 2 24 A.12<# 15< @/45= ./'1?/ <10 : 1'' : 7;5</<# A7;9< 57 9/1>/ ./ A71A.' 1 ./9?'F 872<# 7 ?1C/ 612 4Aa4912 /5J;424/'# : .4A.' ./2 1<0'.46 /OA;'/< 1?=91< 7 845< ?0 1<0 977C @/ /2 .15 >./5 07;2 OA/99/5A0 : /5 1@271<#'15< ?0 72< 15</>4 /?;A. =4&7 : 5# 15< 1 =77< .72'/?15) ./ : 7 /9</' <1;=. /2'' @/1; 48;9 15< ?12241=/1@9/# ./ 07;5=/''45 ./19 .# 15< 199 4?61 4/5 90 /O6/A 45= ./ =77< 5/ : '' 78 07;2 OA/99/5A0&'' @/45= 2/A199/<# 1'' 4'' 19'7 ./ </'42/ 78 07;2 72<'.46&'' ?7'' 7@/<4/5 ''/2F >15 #

H $ K

H 2 ;' /5 4'' ' 499 45 79915< I

./ 87997 : 45= 57 /<7/'' 57 2/1< .C/ 75/ : 24 /5 @0 1 ?15 : .7 : 1'' .121''/< @0 @;'45/'' 78 ./ ?7'' '/F 247;'' 4?672 15A/ / : 1'' 1 ./ ./1< 78 15 12?0 7 : .4A. ';6694/'' : /2/ @/=2;<=45=90 872 : 12</< 827? .7?/) ./ : 1'' A12045= 75 : 12 : ./5 .4'' ?4' 2/''' : 1'' 975=45= 872 6/1A/) ./ .1< 1 <7K/5 ?1' /2'' 7 ''/2>/# 72 15=20 /J;19'' 7 A75A4941 /# : ./5 ! /5<|?/ .1< @; 75/ ';6/2472 * ./ '' 45= 78 215A/) ./ : 1'' 27;@9/< : 4 . </ 149'' 78 ./45 24=;/'' 1 .7?/ 7 7>/2 .27 : +.4'' '75B 45B91 : # ./ 72< 2/1';2/2 * + 72< 7<7969445) 15< : 1'' ' 4 ?72/ <4' ;2@/< @0 ./ A75<;A 78 ! 2'' 1'.1?#

129/0&'' 9445' : 7?15# : .7 : 1'' '/9945=' A7??4''475'' 7))
005
./ ?7' ' ;5</'/2>45=' 15< ?7' '45A7?6/ /5 '78 6/2'75' '
8 H7;2 1 50 ' : 72/ .7224@90 45 915</2'#I 4 '' =/5/219#
1 9/1' # .1< '7?/ . 9/ /OA;'/ 872 ';A. 788/5A/ 1=145' '
G627624/ 0

7 : 4 812/< : 4 . .7'/ : .7 ' : 72/# 87;=. # 15< ';2F
>4>/<# : 499 @/ 2/A799/A /< @0 .7'/ : .7 .1>/ 2/1<
/25/&'' @47=216.4A19 616/2 : .4A.B62/A/</'' 24' 21?'
.15<0 /25/&'' 81 ./2# 7=/2# : 1'' 1 94/; /515 45
15<4'4</&''2/=4?/5 # 15< ./ ?1224/< 1 A16 145&'' G:4<7:#
: .7'/ ' /6B81 ./2 H : 1'' 1 57 /< '; 9/2 45 915</4E'# 45
W;//5 55/&'' : 12' I ./ 94/; /515 # 1'' /25/ '4=5484F
A15 90 2/?12C'# : 1'' 45 </@ 7 ./ '; 9/2# : 947'/ ' /6F
<1;=. /2 ./ 77C 872 1 : 48/ / ?1224/< 6142 : /2/
1 975?/9# 45 , * BD;'' 1224>/< 827?' ;5C42C# : ./5
1:2/5A/ /25/ : 1'' @725 H 0 @; .B<10#I '10''
724AC# H : 1'' 7?457;'' 7 ?0 6772 81 ./2# : .7 : 1'# 75
./ <10 78 7;2E 1224>19# : 4 . ? 150 7 ./2 @21>/ 7884A/2'#
@27C/# 15< '/5 1A.&8 45 7 ./ : 4</ : 729<# : 4 . 1 : 48/
15< : 7 A.49<2/5 I 5 ';A. : 4'/ : /2/ 2/1 /< ./ =19BB
915 ?/5 : .7 ./96/< ./ : 24 /2 78 ./ 87997:45=' 57 /
7 .4'' 91;2/9'(*

' ' ' ' '

'$ #5 'D 2 '' A>0,'' $%

' ' * 'B.1>/ 2/A/4>/< ./ .757;2 78 07;2
72<'.46&'' 9/ /2 78 ./ Q .) 15< .7;=. ' : 1'' 1 842'' '
>/20 '7220 7 ./12 78 15 1AA4</5 .1 ? ;'' 872 '7?/
4?/ ?1C/ 07;2 ' 10 1 ' !/54A/ 9/'' 1=4E//1@9/ 7 07;
.15 : 1'' </'42/< @0 07;2 824/5<'# 0/ ' .76/ ./ '' /6''
./ J;//5 .1'' ?1</# 15< ./ 62;</5 ' ?151=/?/5 07;
.1>/ 7@'/2>/< 75 .4'' 7AA1'475# : 499 1 91'' ;25 7 ./2
1D/' 0&'' .757;2 15< 07;2 '1 4'81A 475 '' 7 : .1
07;' </'42/ 872 07;2 2/ ;25 .7?/# ' ';667'/ 07;' .1>/
M>24 ./ '1?/ .45=' 7 72< ;5</2915<# : 4 . : .7?'

' .199@/=91< 7D745 45 150 4945= 07;A15 </'48/) 15< 48
* 2* E ./J;//5 4" 69/1'/< 7 =215 07;2 2/J;/' # '.199 .45C
4 1 =2/1 .16645/'" 48 ?0 J;12 /2" .166/ 7 94/ 45
07;2 :10#
H 1?# :4 .=2/1 2; .# 07;2 72<'.46&" ?7' 814 .F
8;9 .;?@9/ '/2>15 #

% % ? E

2 H 94K1 75 1=;I :.7 +>24 /" ./ 87997:45= 9/ /2 78 188/A475# 2/62778# 15< =7''46# 7 ./2 @27 ./2# ./ 1?@1''1<72# :1" 94K1@/ .# 72< 15F A./' /2&" '/A75< '4' /2# ./ :48/ 78 42 $144 /" 75 1=;# .4/8 1275 78 ./ OA./J;/2 pM8 ./ 7 ./2 '4' /2'# 75/ :1" ./ H '4' /2 ;8879C I 78 .4" 9/ /2# 51?/9O# 55/# :.7 ?1224/< $1?/" 7:12<# ./ .42< 129 78 ;8879C# 15< :.7'/ '75# <:12< 7:12<# :1'# 45 , -# A7??4 /< 7 ./ 7:/2# @0 >7 / 78 ./ 7;'/78 //2'# 872 =215 45=:24 /5 627 /A475'# A75 2120 7 ./72</2 78 ./ 7;'/ ./ 07;5=/' '4' /2# 1./245/# :1" ?1224/< 7 ./ 2 < :45 78 915>49415=/9# 91?72=15F '.42/# 57 4A/<@/97 :') 15< ./7 ./2 '4' /2# 9/1572# <4/< ;5?1224/<

./ H ;5 ;AO I ?/5475/< 45 .4" 9/ /2 :1" .Y <1;=. /2 78 ./ '/A75< /129# <:12<# @0 ''/O .//C 78 42=7# 78 :.7?>/ .1>/ 62/>47;'90 ./12< 45 ./'/ >79;?/' ;AO :1" ./ '/A75< <1;=. /2 78 .4" ?14B 241=/# 15< '. / <4/< 1 '645' /2 ./ /9</2 <1;=. /2# ''/O# :1" ./ :48/ 78 72< 2:45

5 ./ ?12241=/ ./2/57 /< 78 ./ 1>/5<4'. 81?490 ./2/ 4" 1 '45=;912 /2272 1<0 / 0 1>/5<4'.# :.7 ?1224/< 42 $7.5 /5 :72 .# .1< 57 @27 ./2 51?/< /72=/ :1" ./2 @27 ./2 72< $1?/" 1>/5<4'. :.7 ?1224/< ./ ?/2A.15 &" <1;=. /2

.1 72< 2/</24AC 7:12<# ./ "7?154'' ;C/ 78 72879C&" ;5A9/# '.7;9< @/A7?/ 1 A75>/2 7 27 /'F 15 4'?:1" 57 1' 754'.45= 4" @27 ./2# ./ '/>/5 .

OO45

<;C/# 941<' @//5' 19'7# 724=451990# 1' 7?15' 1 98794A# @;'
@/' @/A1?/' 1' ?/?@/2' 78' ./' '1@94'./<' .?EA.'45' ./'
2/4=5' 78' .129/'' ' .4'' :1'' ./' <;C/' :987# 1'' 129'
12'.19#;'./2/<' $1?/'' ' 7' ./'<772' 78' ./' A.16/9'
:./2/' ?1'' :1'' 1@7;' 7' @/' A/9/@21 /<# 15<':.7' ./2/'
@7:/<1'' 1@7;' 7' 1C/'9/1>/' H' ;C/N1' '14<'./'C45=#
H'07;2'81 ./2' :7;9<'.1>/'=75/'812 ./2 1' H' 5<'07;2'#
'42#1'2/694/<' ./' <;C/# H'57' '7' 812N1' .4'' <;C/' :1''
2/1990'1'842?'15<' /1<0' 27 /' 15 # ' :1'' 24''<4>72A/<
:48/' 1<0' 120' 72<1;5 # :.7' ?1224/<' ./'57 7247;''
=1?@9/2' 42' $7.5' /2?145/# ./''75' 78' 15' 455BC//6/2'
./' 2A.@4'.76' 78' 15 /2@;20# 7' :.7?' ./' ;C/' 78'
/>75'.42/' 77C' 72<' 2/</24AC' 872' =.7' 90' A7;5'/9#
:1'' ./'9/125/<15<'44@/219' /554'75
./' /88/A' 627<;A/<' @0' ./' </8/1' 78' ./' 2/5A.'
1 /?6' 7'45>1</' A7 915<'4'' '275=90'45<4A1 /<'45' .4''
9/ /2' />/2 ./9/''# ./2/' :1''1'' ?;A.'?1.A/'1'' D70'
/.A4 /<'@0' ./'7AA1'475' 05=' >1' 1AA;'/<'78'1'5/=94F
=/5A/' :.4A.'1.57'' 1?7;5 /<' 7' 2/1'75' ' >1' '14<'
.1' ./' ?4=.' 1'' /1'490'.1>/' 1C/5' ./' >.79/' 2/5A.'
89//' 1'' 75/' >/''/9# ./' 194'@4;B0)' 15<' .1' ./' .1<'
57' 8;990' A1224/<' 7;' ./' ?4''475' >4.' :.4A.' ./' >1'
/5 2;'/<' .4'# .7:/>/2# :1'' 57' A722/A' 4'' 45F
'2;A475'' :/2/' 7' 62/>/5' ./' 2/5A.'827?' 915<45=')¢
15<' .4'' ./'<4<' >4 .7;B2/A/4>45=' 150# 15<' 2;90' :4 .F
7;'45894A 45=' ?;A.# <1?1=/' 4'' /5/?4/'' 199/=/<' .1'
.4'' '.46'' :/2/'4?6/</<' 45' ./42' '14.5=' @0' ./'87;95/''
78' ./42' C//9'' 15<' '4</'' 7' ?;A.'A91?7;2'127'/' .1'
1'91'' 15' /5J;420' :1'' 45' 4 ; /<' 45' ./' 7;'/'78' 7?F
?75'' ' 2/';9 /<' 81>7;21@90' 7' ./' =19915' 1<?4219'
./' 7;'/'</A912/<# @0' ./42' 2/'79; 475# .1' 05=' .1<'
/O/2A4'/<' />/20' 67''4@9/'</'61 A.# 15<' .1'@0' .4'' /O6/F
<4 47;'' 1A 475' ./' .1<' 1AA7?6.'./<' 199' .1' .1<' @//5'
2/J;42/<' 78' .4?

/' >1' .7;=.' >72 .0' 78' 199' .757;2j @;' ./' >1'
57' 0/' </' 45/<' 7' 2/16' 4' .42 //5' 0/12'' /916'/<
@/872/' ./' :1'' A2/1 /<# @0' /72=/' # 1275' 05=# 78

/<872<$!15< !4'A7;5 722494=75# 78 ./ A7;50 78
/>75 ./ 62/'/5 >4'A7;5 4" ./ 1<?4219&" =2/1 B
=2/1 B=21X<'75
./ 2/@/9 72< 248845:1"57 /O/A; /<)@; 5/4 ./2
:1" ./ 94@/21 /< 8 /2 1 ' 24A A75845/?/5 # ./ <4/<#
1624'75/2# 45 ./ 7:/2

_'A>O,' $%

H ./ /O6/A 1475 78 9/ /2"827?07;# </12 @27 ./2#
15< ./ ;5A/2 145 0 78 07;2 ' 10 1 ! /54A/# 62/>/5 /<
?/ :24 45= 1?;A. 69/1'/< .1 ?1 /2" :499 @/
1<D;' /< @/872/ 07;9/1>/ .1 691A/# :.4A. ' '//45B
07;2 9/ /2" 7 72< BBBBBB 07;</'42/) 15< ./ /99";'
72</2":4 =7 827?. /J;//5# :.4A. 1?>/20 =91<
78) 872 45 07;2" 7 '4' /2 ;8879C 78 ./ .$;5/1 (2&
:/4?1=45/< 07;@1< 57 .7;=. " 78 A7?45=# @/A1;'/
07;5/>/2 ?/5 475/< 150 .45= 94C/4 # '7 .1 :/ :/2/
';2624'/< 15< 1 94 9/ 15=20 :4 . 07;# .1 07;.1<
1'C/< 9/1>/ 15< <4< 57 /99 ;" '7) 872 :/ 12/ 78 /5
1'C/< ./J;/' 475 :./5 07;A7?/) 15<;59/'" :/.1<
?/ 72< BBBBBB # :.7 4" 78 /5 75/ 78 ;" 1 .4" 4?/ 78
O/12# :/ ?;' .1>/ '14< :/ C5/:57 .45= 78 4 827?
07;# :./5 199 ./ 1 A 4" 78 4 # :.4A. ./O :7;9< .1>/
:75</2/<1 # 15<# @/./>/# .1>/.1< ./ '1?/ .7;=. "
1" .1>/# .1 :./5 5/12 2/91 475" 12/ 4=57215 78 ./
A75A/25" 78 75/ 157 ./2# ./42 C45<5/'" A15& @/>/20
=2/1
H 1?' ';2/:/ .1>/1 97' 1 C45< 824/5< 45 6772
1;5 ;AO# :.7:7;9< .1>/ <75/:.1 />/2 910 45 ./2
67:/2 7 '/2>/;'# 15< 9/8 />/20 75/ '7?/ .45= 7 2/F
?/?@/2 ./2 1?';2/:/ ?4'" ./2 /O 2/?/90) @; #
1" 07;'10# </1 .?;' @/ ./ /5< 78 ;" 199) 15< &?
=91< 7 ./12 07; .45C 78 /5 78 4
H O 72< 7972145/4" </1< 944" '; ? ?/2 .1" @//5
'7 A79< 15<:/ .1 ./ 7:5 4" 57 >/20 /?6 0 0/
./J;//5 4" ?;A. @/ /2 '45A/ './ :/5 7 45<'72#

@;.1' '499 1:/1C5/''45.2 9/='#@;57 6+45./
j 245A/.1'@//5?4=.0 499./2/#@;4'57:@//2
N 2'12 4'?14<78.757;2 45 691A/78/?69/#
:.7.1'?1224/<1 07;5=/2'75 78 42.129/'4 9/75
0 72</72=/1>/5<4'.4'?1224/<7 1<1;=./2 78
2 19/#1?/2A.15 * './.1'@;Q# P# 15<57
.15<'7?/#15<199.4'2/91 475'1=145''./?1 A.(.4'
'4'/2# 1<0/0# 4'?1224/<7B<10 7 42 $7.5/5 F
:72.')15<?0 72<./:12<4' 7@/# 1''775 1'./
91:0/2'.1>/<75/./42 612 # 7 2''27:5 0 72<
2/<7:12<#./;C/78 72879C&';5A9/# 1>/20
07;5=?15# 4';25/<27/'15 (./;C/78 />75F
'.42/A1224/<.4?7:14 75./2A.@4'.76 78 15 /2F
@;20# 15<5/O ;5<10./4'7 2/A/4>/./'1A21?/5
1 $1?/'&'.;2A.

H./D708;9 5/:' 78./</8/1 78./2/5A.'.1'
=4>/5 6/769/157./2 948/15<'6424)872 845<.7'/.1
C57:?7'#.7;=.188142'.1<.1<1'@1<627'6/A
@/872/2 <:45 4'45 7:5B(./A1?/;6 7''/9/
'7?/?1 /2'# 78.4'7884A/:4.2 ?4.#.15A/9972
78./OA./J;/2 ;2 1AJ;145 15A/.1'@//5>/20
;52/1'751@9/45.1 188142 * 77 975=7 /99 07;'45 1
9/ /2 @;@/94/>/./2/:499 @/57.45=<75/
1 91' +

H [R9O <:45''/5<'.4'B''/2>4A/7 07;# 15<.76/''07;
2/A/4>/<.4' :7 9/ /2'.1 ./:27 /'7?/4?/1=7
'1:07;2 <7A 72# :.7 :1'' 7220 :1'' 872A/<7 9/1>/
07;) @;.76/45 7<07;:499 57 :15 .4?# 15<
.1 '.199 @/.1660 45''//45=07;@0 4A.1/9?1'#
c:.4A.':499 @/15 1=2//1@9/'1 4'81A 475 7# A9/12 @27./2#
0?;(188/A 4751 /'4' /2# E

H 4' /2 ;8879C =4>/''./2''/2>4A/7 07;(199 07;2
824/5<'12/':/99 ./725/0B /5/219&' 691A/4'57
0/<4'67'/<78# 15<4 4''<7;@ 8;9:././2 42 $1?/''
>499 @/45 72 57) 1 62/'/5 ./<7/'+@7. 0 72<
248845 4'2/624/>/<872 1?75.(/>/20@7<0 A75A9;</''
./:499 57 <4/ I

. /' oo +' 9/ /2' '1 4'81A 72490' A75A9;</'' . /' ' 720' 78' . /' <4'6; /' 87;5</<' 75' . /' 788/5A/' A7?? 4 /<' 1=145' ' K8989# *)+' 5=915<' 44n' . /' 6/2'75' 78' . /2' 1?@1''1<72' (*

' ' ' '

' $;5/' -# , ,

' ' * ' .1>/' . /' .757;2' 78' 07;2' 72<'.46&'' 9/ /2' 78' 94/' - .' 45' # ' #:4 .' . /' /5A97'/<' A764/'' 78' . /' /?7241' 15<' . /' /51 /&'' 15':/2#:.4A.' '.1>/' 914<' @/872/' . /' J;//5#:.7' <7/'' /5 42/90' 16627>/' 78' />/20' '/6' 07;2' 72<'.46' .1'' 1C/5' 45' . /' :.79/' 188142# 15<' 4'' >/20' :/99' 69/1'/<' 7' '//' . /' ?1 /2' 4'' '7' 5/12' 1' A75A9;'475' 7' . /2' .757;2' 15<' . /' 51 475&'# 15<' ' 1?' ';2/' 4 ' :499' @/' >/20' ?;A.' 7' +7;2' 72<'.46&'# . /' 612 ' 07;' .1>/' 1A /<' 45' 4) 15<# 45' 72</2' 7' @245=' 4 ' . /' '775/2' 7' 1' =77<' A75A9;'475# '45A/' . /' '/51 /' 04/9<' . /' :7' ?145' 6745 '# . /' J;//5' 4'' >/20' :49945=' 7' 1<?4 ' 78' . /' /O6/<4/5 ' 07;' ?/5 475' 45' 07;2' 9/ /2' 45' . /' 277?' 78' . /' 6499720) 72# 48' .1 ' 4'' 57 ' 1=2//<' 7# <7/'' /?F 67:/2' 07;2' 72<'.46' 7' 1=2//' :4 .' . /?' ;675' 150' 7 ./2' :.4A94' 07;' .45C' ';4 1@9/#:.4A.' 4'' 9/8 ' /5 42/90' 7' 07;2' 62;</5A/

H' '' 872' . /' A97 .# . /' J;//5' .45C'' :.1 ' 07;' 627F 67'/' 45' '/5<45=' 4 ' 7' . /' .7'64 19'' 4'' 24=.

H ' '1:' . /' ! /5/ 415' 1?@1''1<72#:.7' '//?'' >/20' :/99' 69/1'/<' .1 ' .4'' <4'6; /' 4'' '7' 5/12' 1 ' 15' /5<' ' 79<'.4?' . /' ?;' ' 57 ' /O6/A ' 7' '//' . /' J;//5' 499' />/4OB' .45=' :1'' 1A ;1990' <75/' 75' . /42' 612 ' ' 1?# :4 .' =2/1 ' 2/'6/A # 07;2' 72<'.46&'' ?7' ' 7@/<4/5 ' '/2>15 #

' ;

B,-,' 6*? *' C5,+' @B5' ?*;1' 58' B;? 6*);*O+');++),' B,-5

;?' 9 51,?+7.? *' 8)*9=,*>'+5' B;?' 9,-;+ +' ?B;O,?';+?,)8' *01' ?B5@?' B;?' 9,-;+' +55

/27/'# .7:/>/2# .1>/' 57 ' 45>1241@90' @//5' ?7</')' 15<' .7;=.' . /' ' 15<12<B@/12/2' 78' . /' /5 .' 9/=475' A7;9<' ' 4?;91 /' .4'' A7?21</'' 7' </'<'' 78' =2/1 ' <1245=' @0

19C45=' 7' ./?'78' <; 0 * 57 ' />/5' ; /245=P ./' :72<#
=9720 * 0/ ' ./42' =2/1 ' A7??15</2B45BA.4/8# 75' 157 ./2'
7AA1'475# ?122/<' ?;A.' 78' 1' 8142' 62/A/</D4 ' @0' .1 '
81?7;'' </'61 A.# H' !/54# >4<4# >4A4N I' 78' :.4A.' ./' 7590'
?/24 '4'' 4 '' @2/>4 0

5/'78'7;2'7:5'1<?4219'# 18 /2'1'84/2A/'15<' ';AA/''8;9'
A75 /'' :4 .' ./'89//'78' 1' =19915 ' 1<>/2'120'1 ' '/1# <4<'
57 ' 27;@9/'?0' 72<'' 1 ' ./' <?4219 0' :4 .' 150'8;2 ./2'
1AA7;5 ' .15' :1'' A75 145/<'45' ./' :72<'# H ;5C#@;25 #
15<' A16 ?&/<' 78' ./B' /5/?0&'' 89//' 1'' 57 /<' 45' ./'
?12=45 I

./' 91AC' 245A/' '14<'78' 2/AO'15<' 74A 4/2'# .1 '
7<' .1<' =215 /<' ./' 5=94'.' =2/1 '>4A 724/'' 75' .7'/'
84/9<' * 57 ' 1' :72<' <4<' ./' '10'78' ./' 12?'78'89/'.# 78' ./'
?72 19' ./:'' 15<' '45/:'# 78' ./' ' 7;' ./12 '' 78' ./'
@21>/' 5=.'.?/5':.7'.1<'7>/2A7?/'75' .7'/'<10'' ./'
=19915 '1<>/2'124/'# :.7'=1>/' 7' ./' 24;?6.'45A2/1'/'78'
'69/5<7;2# @0' ?1C45='4 ' '7' .12<'78' :45545=' 7<'.1<'
>7;A.'18/<' .1 '>4A 720' '.7;9<' '4 ' ;675' ./42' ./9?'*'
./'15<'.4'' ?1 /'' :/2/'@;' 1'' 45' 2;?/5 '' 45' ./'!7;A.B'
'18/2&'' .15<'

7'4'' ./'@24=./''<10'45' ./'15519'' 78' />/29/0'15'
499;' 21 475' 78' 1' '4?4912'81A ' "45=' /520' !'4'' 45' ./'
15A4/5 ' 7:5# 15<'D70'@/99'' 12/'245=45=# 15<'6/5575'' 12/'
890?=' 827?' ./'2778'' 78' 1 ' /<484A/'# 15<' ./' :199'' 12/'
.;5=' U:4 .' 16/' 20' 15<'897:/2'# 15<'624/'' '' 12/'?7>45='
45' 627A/''475# 15<' A/5'/2'' 12/' ':45=45=# 15<' 45A/5'/'
24'45=# 15<''79<4/2' * :/1 ./2B@/1 /5# 15<'' 499' '7?/ .45='
.1==12< * 87997 !' 45' '/224/<'215C'')15<' ./5'A7?/'' 75/#
:19C45=' ?//C90' 15<' 1975/#@;' ' 4 .' 2;/' ./27'45' />/40'
=/' ;2/# 15<' 1'' ./'166/12'# 1' '.7;' @;2'' 872 .' ;675'
./' 142# 15<' 4'' C/6 ' ;6' 1975=' ./' .5/' @0' :.4A.' ./'
?7</' 90' 61''/'

.1 ' 75/' :.7' /OA4 /'' ';A.' /5 .;'41'?' 4'' ./' 2701'
1220' :.7' :75' =45A7;2 # 15<' ./' 4'' 45' />/29/0'@/F
A1;'/'78' .1 '>4A 720)* 57 '@/A1;'/'./' :75' 94/' :2/1 .'
75' .1 '/>/5 8;9'<10#@;' ' .1 ' ./' .1'' A7?/' 7' .15C' ./

. /' 1@9/# 1'' . /' : 1'' 1@7 ; ' 7' '6/1C# 15<' : 1'' 448 / ? 46 /<'
@0' 7 ? /2' / # : . 7' 627 /' /<' . 1 ' </94@/21 475' : 1'' 4 ? F
67' '4@9/' 45' . /' 1@' /5A/' 78' . /' 7 ? ? 15</2B45o . 4/8' 15<'
. /' 72<' 2/1' ; 2/2 ' . /' A7 ; 5A49' @27C/' ; 6 ' . /'
J ; / /5' : 1'' 1 ' 75A/' 15=20' 15<' 1912 ? /< ' . /' ? 454' /2'
8/99

; ' . /' <4884A ; 9 4/'' 78' 129@727 ; = . ' 15<' 7<796 . ?'
7590' 45A2/1' /< ' . /42' 872/4=5' 67 . A0' 15<' A75 45/5 19'
5/=7 41 475'' : /2/' </8/1 /<' @0' 1' @1ACB' 142'' 4589 ; /5A/')
15<' ; 5</2' ? 72/' <4' A7 ; 21=45=' A42A ; ? ' 15A/'' 9415' 150'
: . 4A . ' . 1<' />/2' 1 /5</<' . 4 ? # . /' @/=15' . 1 ' A1 ? 614=5'
78' , Q' : . 4A . ' : 1'' 7' @245=' . 4 ?' ? 72/' =9740' . 15' 150'
. /' . 1<' 1AJ ; 42/<' '45A/' . 1 ' 78' . /' A1 ? 614=5' 45' : . 4A . ' . /a'
: 1 'B . /' >4A 72' 1 ' 9k5 . /4 ?

5' 6249' . /' B15<' ; =/5/' ? / ' 1 ' . /' 1=; / ' . /0'
1=2/ /<' 7' 872 ?' : 7' 12 ? 4/ '# 45' 21@15 ' 15<' 75' . /'
7 ' / /# 15<' 57 ' 7' 9/ ' . /42' 1990# . /' 9/A 72' 78' 157>/2#
45 7' . /' ' /A2/ ' 78' . /42' <Y /2 ? 451 475 '# 1'' '7 ? /' 78' . 4''
A7 ; 2 4/2'' : 7 ; 9<' @/' ' ; 2/' 7' '/99' . /' ' /A2/ ' 7' . /' 2/5A . '
' . 7 ; '15<' <4884A ; 9 4/'' 827 ?' 1' . 7 ; '15<' J ; 12 /2'' @/ ' / '
129@727 ; = . ') />/5' . /' ; A . ' 15<' 9/ ? 45='# : . 7 ?' . /'
. 1<' A7 ? /' 7' '1>/' 827 ?' . /' 2/5A . # . : 12 /<' 15<' @/F
210/<' . 4 ? ' ' =4=15 4A' =1 ? /' 78' A . / ' '' /5 ' ; /<' @/ : / /5'
. 4 ?' 15<' ! /5<| ? /# . /' 2/5A . ' A7 ? ? 15</2 * . /' 91 /2'
' 24>45=' 7' 1<>15A/# 15<' @/45=' A . /AC/<' 1 ' />/20' 6745 '
@0' . /' <; C/# : . 7' . 1<' @ ; ' ' />/5 0' 7' . 4'' =2/1 ' 1<>/2F
'120&'' . ; 5<2/<' . 7 ; '15<' ? /5

0' 2/1A . /20# . /5 ' 15<' 7 . /2' A4 4/'' 8/ ' 45 7' . /'
67 : /2' 78' . /' 2/5A . # @0' : . 7 ?' ; </512</' : 1'' . /5'
E45>/' /<# : 4 . ' 72</2'' 827 ?' ! /2'1499/'' 7' 1C/' 4 ' 1 ' 150'
A7' ' ' . 1 ' ? 7 ? /5 # 129@727 ; = . ' : 1'' ' /247 ; '90' 499#
@ ; ' . 1<' 57 ' . /' 9/4' ; 2/' 7' 1 /5<' 7' ' ; A . ' 1' ? 1 /2
H' ' : 499' >/5 ; 2/' />/20 . 45=# I' . /' '14<# H' 21 . /2' . 15' 97' /'
; </512</ I

/' . 1<' . /' 1<>15 1=/' 78' . 1>45=' : 4 . ' . 4 ?' 1' ? 15 '
245A/' ; =/5/# : . @# . 7 ; = . ' 78' <488/2/5 ' A7 ; 5 20' 15<'
2/94=475# ' / / ? /<' @ ; ' 1'' 1' 612 ' 78' 129@727 ; = . &'' ? 45<

15< : 499 b ./0 .1< ./ 8;2 ./2 1<>15 1=/# .1 ./0 c
: /2/ 19 : 10 <745=# : ./2/1 ./ '/>/219 2/5A. ./1<
78 A7?? 15+9 : /2/ 45 <4'6; / 1 7 : .1 '.7;9< @/ <75/
4 9/ ?72/ 5//< @/ '14< 44</512</ : 1 87;=. 75
=27;5< 7 : .4A. ./ 2/5A. .1< @//5 A7?6/99/< 7
@/ 1C/ ./?'/9>/'' : 1 1 @1 9/ 78 /64'7</') 1 @1 9/
87;=. : 4 .7; 12 499/20# : 4 .7; A1>1920 * 7 150 /OB
/6 # @; A.4/890 @0 ./ 877 # 15< : 4 . ?;'C/ 15<E
@1075/
/5/219 1<7=15# >.7 '.7 : /< 75 .1 <10 78 : .1 G
';88 : 1 ?1</ ./ 15A4/5 @977< 78 ./ 6245A/ 78
7 : 0'# @/A1?/ +;9 4?1 /90 1 6//2# 15< 129@727;=.&
';AA/''72 / : 1 ./ 972< : .7 18 /2 : 12< 62767'/<
.1 /2@;20 '.7;9< @/ H .27 : 5 7 ./ 9475'#I 15<
: 1 ' 4=?1 4'/< 45 ./ 87997 : 45=/64=21?(*

7 8,*-'>0 9 56,1 =7 ?B* 9 ,'>0*@,1
88?C-;0E 58 =*0EO;*0 *01 58 =*@1
0E;2*+,8>)' +5 +B.' >0E;<*+,8>)' 9 ,0 B,'E-,@ =7
' =5)1 ' =*1 ' =5;?+.-5>?' =)>?+.-;0E ' =)5517 =55=7

129@727;=. 87;5< ?150 ;5=21 /8;9 ?/5 : .7? ./
.1< ./96/< 7 A7275/ ' 15< /2?45/ * 72< 142 1?75=
./ 5;?@/2) @; . ./'/ : /2/ 57 ?1 /2' : .4A. '/F
247;'90 188/A /< .4 ?45< / .1< : 75 1 @1 9/ : .4A.#
@; 872 : 15 78 : 7 .7;2 ?72/ 78 <1094=. # : 7;9< .1>/
6; 15 /5< 7 ./ : 12 ' 4 : 1'# 4 691A/< =2/1 76F
672 ;54 0 872 =77< 45 ./ J;//5& .15<'# 48 '. / : 7;9<
7590# 1 129@727;=. '14<# H @/ 69/1'/< 7 ?1C/ ;'/+78
4 NI 8 ./ =2/1 1A.4/>/?/5 # ./ .; ?7</' 90 : 24 /
7 72< 15A./' /2(*

$ #5 3 B?A ((A>)JO $%

* 2/ 4;?07;2 72<'.46 ?150 .15C
872 ./ 81>7;2 78 07;2 9/ /2 78 ./ 5< 91' ?76 94#
15< : 1 =91< 7 '// 07;2 72<'.46 : 1 94C/ '775 7
.1>/ D;' '1 4'81A 475 827? ./ 2/6;@94A 78 !/54A/

OO444)

7;' 5//<' 57 ' <7;@ ' ./5' @; ' ./' J;//5' E"' 2/1<490'
=215 ' 07;2' <Y'42Y' 78'2/ ;2545=' .7?/ ' /' 12/' 45' =2/1 '
/O6/A 1 475' 7&@/12' 78' 42' $7.5' 1C/&"' @/44+' '149/<' 872'
1 197541# :./2/' ./E ';AA7;2"' 827?' 190' :499' .1>/'
@//J' >/20' ?;A.' :15 /<)' '45A/' :/' ./12' ./' ;C/' 78'
29/15'B' 6/2'4' /<' 45' ./' '4`=/' 78' 72 7'1# 57 :4 .F
' 15<45=' ./' 97'"' 78' .4"' 627>4'475' '.46"' 1C/5'@0' 7;2'
89//

W' 7;2'%72<'.46' :499' .1>/' ./12<' :4 .' A75A/25' ./'
/5/?0&"' 1C45=' ./' A4 0' 78' 15<#@0' 2/1A./20' 78' '7?/'
78' ./' 45.1@4 15 "')@;' ./' =77<' 57:"' .1' :499' '775'
.1>/' 87997:/<# 78' 7;2' </8/1 45=# 75' /<5/'<10' 91' #
612' 78' ./42' 12?0' 5/12' ;</512</# 15<' 7@94=45=' ./?'
7' 2/ 42/'@/.45<' ./' A1519'@/ ://5' 15<' 15<' 2;=/'#
>499' .1>/' ?1</' '7?/'1?/5<'

H /' 77C' @/ ://5' 3# ' 15<' ,# ' 624'75/2'# @/F
'4</"' 1@7;' ' , ' 7884A/2'# 78' :.4A.' '/>/219' 12/' 78' 57 /#
15<' 1' =2/1' 5;?@/2' 78' ' 15<12<"' 15<' A797;2'' ;2'
12?0' 910' 75' ./42' 12?"' .1' 54=.# 15<' 75' .;2'<10'
/5A1?6/<' 75' ./' 84/9<' 78'@1 9/' 5' 24<10' :/' 2/' /<#
./' 2776"' .1>45=' 5//<' 78' '7?/' /1'/' 18 /2' ./42' =2/1'
81 4=;/') 15<' 1@7;' ?4<54=.' </ 1A./<' 872 0' 'J;1<275"'
15<' .42 0'@1 19475"' 7:12<"' ./' /5/?0&"' 945/'#@/ ://5'
125/ 75' 15<' 62/'' ./' :.79/' 12?0' 87997:/<E@0'
@2/1C' 78' <10' 15<' /5A1?6/<' 1' /9A.45# :./5A/' :/'
6;2';/<' 7;2'?12A.' 7B<10' 7' .4"' A1?6# A97'/' 7' ./42'
945/'# :.4A.' :/' 87;5<' 7;2' </ 1A.?/5' .1<' 872A/<# 15<'
1C/5' - ' 624'75/2'# ./' 7590' =;12<' ./' /5/?0' .1<'
9/8' 872' ./42''/A;24 0' /' <7' 57' ./12' .1' ./42' 12?0'
4"' ?12A./<' 827?' @/.45<' ./' A1519# :.4A.# :4 .' ./42'
67''/''45=' 78' 15<# G>4' @/' 1' =2/1' 7@' 2;A 475' 7' 7;2'
@245=45=';6' 7;2' ./1>0' A15575' 15<' 12 499/20') '7' .1 #'
8/12# :/' '.199'@/' 7@.=/<' 7' 2/ 1C/' .1' 691A/'@/872/' :/'
A15' ?1C/' 150' 8;2 ./2' 627=2/''

H' 1?# :4 .' =2/1' 2; .# 07;2' OA/99/5A0&"' ?7''
814 .84<'.;?@9/' '/2>15 #

00?

6276/2 4?/# .1 ? 10 .14>/ ./ .757;2 78 /45= 75/ A1557 @; .45C C57 : ./ '4 ;1 475 78 ./ 189142" 78 ;276/) @; : ./5/>/2 .1 .166/5" .8A2/ :499 @/ ';A. 62/94?45124/'" 1=2//< 75 .1 ./ 2/' 1C/ 7 @/ ?72/ 872?' .15 150 .45= /9'/) @/'4</'# 1" : 1" 45 215AA# 15< 9/8 4 45 ./ ?155/2 <4<# :.4A. '.7 :/< ./ 5/A/''4 0 78 /5=1=45= 45 .4" :12# :./2/ <4< '6/1C >/20 2;90# 15< 79< ./?' :.1 ./0 ?4=. 2/1'751@90 /06/A # 4 :7;9< @/ '7?/ '1 4'81A 475 7 ?/ 7 @/ 1 ';A. 1 2/1 0# 15< 7 845< : 1" 57 ?4' 1C/5 H .7;=. 4 6276/2 7 ?/5 475 .4'# 15< '.7;9< :49945=90 A75 45;/ 1@271< 75 ';A. 15 1AA7;5) 7 ./2F :4'/ 07;2 72<'.46 A1557 @; @/./>/ .1>/ 45<;A/F ?/5 " /57;=. 7 :4'. 7 @/ 1 .7?/ .1>/ 19'7 157 ./2 2/J;/' # .1 07;2 72<'.46 :499 72</2 ?/ '7?/ 8;2 ./2 610?/5 .1 ?10 /51@9/ ?/ 7 610 ./ @499" .1>/ <21:5 /12 ./ 4?/ .4" :499 A7?/ 7 07;# ./2/ :499 @/ <;/ 7 ?/ 1 0/12 75 ?0 166745 ?/5 '# @/'4</" 1 0/12 15< 1 .198 75 ?0 /O 2172<4514E4/' '.7;9< 57 =4>/ 07;2 72<'.46 150 ?72/ 27;@9/ 78 .4" 51 ;2/# A7;9< :/99 1>74< 4 1?#

H I

A/5 ;2O# 4 ' : 1'' 2/>4>/<' 45' 94/' 6/2'75' 78' /52D8' 7 : 12<#
'75' 78' . /' 848 .' 129' 78' ;4 79C# 15<' 18 /2 : 12<'' . /' '4O .'
/129 ' ! 15@2;=.' '.7;9<' .1>/' '67C/5' 78' .4[nD4 1'' 72<'
7 : 12<' 78' 45<75
. /' : /99BC57 : 5' 15<' ;52/1'751@9OB87;5</<'<4'94C/' 78'
W;//5' 55/' 7' . /' 499;' 247;'' 72<' 7?/2'' 4'' 199;</<'
7' 45' . /' 5/O ' 9/ /2 ' . /' /OBA.15A/9972#E.7 : />/2# 1''
72<' 2/'4</5 ' 78' . /' 7;5A49# 45' .4'' 45 /2A7;2'/' : 4 .'
. /' J;//5# : 1'' '7'6794'./<' 15<''7'</8/2/5 419# .1 ' =2/1 '
55/' 1 ' 9/1' ' A75A/19/<' . /2' <4'94C/' 7' . /' 2/57 : 5/<'
15<'61 247 4A' .4='' 1 /'?15 ' /'?;'' .1>/'69/1'15 9O'
A75 21' /<# 45' 55/&'';5@41''/<'D;<=?/5 # : 4 .' 129/O#
78' >.7?# 875<' 1'' '. /' : 1'# '. /' A7?69145/<' .1 ' . /'
7AA1'4751990' A1?/' 6' . /2 * : ./5' '. /' =215 /<' .4?'
624>1 /' 1;<4/5A/'' L18 /2' '//45=' 7?/2'M * ;5</2' . /'
4589;/5A/'78'94J;72 ' H' '2/?/?@/2#I' : 24 /'' . /' ;A. /''''
78' 129@727;=.# H' 7' .1>/' @//5' 1 ' '/>/219' 78' 72<'
7?/2'&'' A75>/2'1 475'' : 4 .' W;//5' 55/# 7' 8499' 7;'
. /42' /1' 15<' : 1'.' . /42' A;6'' & 4'' A/2 145' .1 ' 1''
'775' 1'' . /' =7 ' 45 7' .4'' 67' # 7' 7@ 145' : .4A.' ' '7' 78 /5'
;2=/<' . /' J;//5# . /' ?1</' .4'' A7;2 ' 7' @4=149# 15<'
>/20' '/9<7?' A1?/' 7' ? /J 15<' 4 ' 4'' 2;/' .1 ' 72<'
O872<' 15<' '$7.5';'/<' 7'91;=.' 45' . /42' A;6''L : .4A.'
A1?/' 7; ' @0' . /' ;C/' 78' />75'.42/M# .1 ' . /0' .1<'
45' 2;A /<' . /' J;//5B 7' @/.1>/' '7' 1'' 7' ?1C/' 72<'
7?/2'' .45C' . /' '.7;9<' @/' . /2' A.4/8' ?454' /2 I' . /'
A7;9<'1A ' 1' 612 ' >/20' : /99' : ./5' . /2'9/''75' : 1'' =4>/5'
. /2# 15<' 45' 1'94 9/' 4?/' 4 ' 166/12/<' >/20' 69145' 7' . /'
;C/' 78' 129@727;=.' 15<' 72<' 7<796.45' .1 ' 7?/2''
.7;=. ' 78'57 .45='7' ?;A.' 1'' 7'891 /2' . /' J;//5# 15<'
: /5 ' 7' . /2'82/J;/5 90'45'624>1 /
>4</5 90# 7?/2'' : 1'' 1'' 94 9/' 78' 1' 81>7;24 /' : 4 .'
. /' <;A./'' 1'' : 4 .' . /' J;//5 ' /' 6/2.16'' : 1'' ';'F
6/A /<' 78' @/45=' 77' 45 4?1 /90' 1AJ;145 /<' : 4 .' ?1 /2''
: .4A.' . /' <;C/' : 7;9<' 8145' .1>/' ./9<' 1' 62787;5<' '/A2/'
45' .4'' 7 : 5' C//645= ' ' 4'# 1 ' 9/1' # '14<' .1 ' 1?75='
. /' 616/2'' 78' 7?/2'# : .4A.' A1?/' 45 7' . /' 67''/''475

$

.4'' 91' ' 27C/' 45' 915</2'# ' .76/# :4 ' 627A;2/' 75/' /' 12/' 45' =2/1 ' /O6/A 1 475' 78' : .1 ' :499' @/A7?/' 78' .4'' 2/5A.' 12?0# 6/7699/' 1C45=' 4 ' 872' =[n45 /<' 1 ' ./0' A1557 ' 67''4@90' =/ ' 788' :4 .7;' 84=. 45=' 1=145# :.4A.' 4'' 57 ' .C/90' 7' 2/A7>/2' ./42' 188142'# ' .1>/' 57 ' 0/ ' @//5' 1 ' "4?@79 75' '45A/' ?0' 1<0' A1?/' .27;=.' 827?' //'' 1:2& @; ' </'4=5' 7' :14 ' 75' ./2' 75' 1 ;2<10' 5/O # :./5' ' @/94/>/' ' '.199' 845<' 199' 24=94 # 15<# 1'' ' ./12# >/20' ?;A.' 1<>15A/<# ' .1>/' 1' A75' 15 ' A722/'675</5A/' :4 .' 79/?15# 15<' 1?# 45' ?7' ' .45='# >/20' >/99 '1 4'F 84/<' :4 .' .4?' 8' :/' .1<' ';A.' 1' ?15' 1 ' 9/5./4?# ./' :7;9<' '1>/' ;'' 1' .7;'15<' 67;5<'' 1' 0/12 ' /' .1>/' ?1</' 1' >1' ' 627=2/'' ./2/# @; ' 4 ' >499 ' 4 ' 1C/';6' :7' ';??/2'' ?72/' 7' 84X4'[4' ' ?/' 42' $7.5' 754/2'' ./2/' 75' .;2'<10' 91' # :4 .#'/>/219' >4'4 72'' :4 .' .4?' /' ?1</' ?4=. 0' 845/' '6//A./'' ;675' 94/'@;49<45=# 15<' 77C' + ' 872' =215 /<' 57' ';@D/A &'' .7;'/' 45' ;276/' :7;9<' 166271A.' 4 # :.4A.' :499' @/' 2;/# 48' ./' ;C/' 78' .2/:'F @;20' D;<=/'' 24=. ' 45' '1045=' V ./2/' 4'' 57 ' 45' 190' '7' 845/' 1' .7;'/' 1'' .1 ' :72 .')& 872' .4'' 78' 9/5994/4?' 4'# @/075<' 199' A7?6124'75# ?72/' ?1=5484A/5 ' .15' .1 ' 0' 72<' 1294'9/' .1'' =7 ' .4'' :.79/' =12</5' 8275 ' ;6# 15<' 4'' 875</2' 78' .4'' :72C' />/20' <10' .15' 7 ./2' ./' ;C/' 78' .2/:'@;20&'' .7;'/' :499' @/' 1@7;' .198';6' .4'' ';??/2' 0' 72<' 45<75' 4'' @;'0# 7' ./' ;?7' ' 78' .4'' 872A/# 45' 5/:' ?7;9<45=' ;<9/0' 5<# 15<' 199' ./' :729<' 12/' 2;5545=' ?1<' 18 /2' @;49<45=' 1'' 812' 1'' ./0' A15' 2/1A.' ' ./12 490' :4'.' 7' '//' 07;2' 72<'.46' 1 ' "4?@79 75# :./2/' ' /125/'90' </'42/' 57 .45=' ?10' @/' <75/' 7' ./' @7:' :45<7:' <9' 07;' A7?/')' 872' ./2/' 12/' ?150' .45='' 7' @/' A75'4</2/<# 72' :.4A.' ?10' </6/5<' 75' .1 ' 19 /21 475 ' ./' !4A/' .1'' @//5' 914<' ;6' 78' 1' ''/>/2/' 84 ' 78' ./' =7;' 1 ' 24?' .726' />/2' '45A/' .4'' /9/A 475# @; ' 4'' 57:' D;'' =7 ' 7' 7:5# 15<' 62/ 0' :/99' .45='' 12/' 45' 15' 7<<':10'1 ' 7;2)' 57 ' 199' ./' 45 /2/'' '' 78' 72<' 2/1';2/2'LSM 15<' 1<0' 109@727;=.# @1AC/<' 15<' 62/''/<' :12?90' @0' />/20' ?15' 78' ./' 1@45/ # A15

62/>149 ./ J;//5 7 1<?4 ? 0 72< 7?/2 45 7 150 .45= * 57 '7 ?;A. 1 7 ?1C/ .4? 725/0B /5/219 . /15' :/2 . 9/ 7 ./?#@; ' 15< 842? 1=145' 199 ./0 '10 0 72< .1?@/29145 4 45 1 7 /245= :10 C57 : . / /06/A 7 @/7; # : .4A. ./ .1 57 1 ?45< 7) ./ .1'# 45 1 24>419 .45=# <4'7@94=/< ?0 1<0 129@727;=. 7 1 =2/1 </=2// ./ 4 >/20 ?;A. 1 7;2 # 15< ?4=. 0 :/99 ./2/#@; . / J;//5& 875<5/' 78 ./ 7 ./2 91<0 4 .7 7 @/ /062/' '/< : 499 =4>/ 07;2 74O9'9446 15 1AA7;5 78 .45= 1 "4?B @79 75 5/O >//C# .76/ 7 07;2 '1 4'81A 475#@/45= ?7' '45A/2/90 07442 72<'.46& 7@94=/< 15< >/20 7@/<4/5 .;?@9/ '/2>15

H $ V 8

H 9< 42 19 /2 $79?' 4 </1< 1 91' . /12 75/ 78 ./ 79< =/5 9/?/5 1 ' 77< 45 07;2 72<'.46& :10 1 ./ 129 75 7;'/ 4 '7 77 ./7 ./2 1?' 1AJ;145 /< :4 . * ./ 94>/ D;' @0 9/5./4? * 4 ./12 0# @; <2;5C />/20 <10# 1 9/1' 75A/ I

7;2 45 24=;/ 15< =/5/219 6794 4A 872?' ./ ';@' 15A/ 78 ./ 5/O 9/ /2 .1 57 '4=51 ;2/#@; 4 /5<72'/< H 2 <BBBBBB<' I >4>4<90 2/A199 ./ 4?/ :./5 0%#$ #" !-' # 0! : $#' ;#$#' # 9#$35' .$!9' ":#' A : 9'%#%2#$ '01' ":#' 0. #' ": " 1' ":#' B.##!'!0% ! "#-' - !# '01' 0$5' /$!< /3# ' "0' ":#' #/ <0/ "#' :#$' :# $" ' 3"09#":#$' ":' ":#' A 3 9 ' " : <:' ":#' A : 9' 9#!"3#%#!' 20 #-' % 3#-' !-' -#<3 !#-' "0' 2#:# #' 0$-' 01' " ' !' ":#' 0":#$' : !-' $3#5 ' " '=0 : !' !-' $<0.$" ' #$#' '# 9#$35' -# 3 !9' ":' ":#' 0$ # '/$OD "# " !9' ": " ":#' $05 3' :# $" ; ' 3"09#":#$' 11#<"#-' $%35' "0 $-' ":#%' !-' ": " ":#$' N# "5' ; ' # $5' 01' ":#' A 3 9 ' !-' ;0.3-' 1 !' 2#$ -' 01' ":#%' ? 2." ":#' 0$5' 9#!"3#%#!' !0--#-' ":#$':# - ' 3 .9:#-' 0$1$0 !#-' !-' #$# !0" "0' 2#/#$.-#-' A :#!'# <:'/ $"5' < %#' "0' >!0 ' ": " ":#' 0":#$' : -' 2##!' ":#' 02N#<" 01' .D $!<# ' ": " " ' %#%2#$ ';#$#' ":#' %#!' ;:0%' ":#' B.##!

-#3 9:"#-"0:0!0 H 20":. ! "#-! -#!.!< " <=3 01":#
-./3<"5 01 % ! "#$! -":# 33H1 ":01 90 #$!%#!" 9#!#$ 335

4'?1548/'# 77# 827?H 72< BBBBB&'I 9/ /2 7 1<0 129@727;=.# .1# </'64 /199 ./=9720 1AJ;42/< 15<45 627'6/A# ./2/:/2/?/5 >.7:/2/:/140 78 ./ :12 45 :.4A. ./0 :/2/1A 4>/90 /5=1=/< ?4<4 '=2/1'A/5/' 15< /64'7</'# ./''?199/2 45A4</5 ''.7;9< 57'@/'872=7 /5' 5/'78 ./'/':1'A755/A /<:4.' ./ 81?7;'A75>70 /5 2;' /< 7 ./'=;12<415'.46 15<A7;21=/' 78 /5/219 /@@' 129@727;=.# @/'4/=45=' 4 /# :1'' 45 :15'78 1??;54 475' 2145 78 Q'' :1==75'' >1' </'61 A./< 7 .4?' 827?' '/5<# 15< 129@727;=.'</F 1A./< /@@:4.'3#3 '?/5 7 '/A;2/'4 '' '18/'61''1=/ 0 -# "$05 0$ 9#'' /0 # 0!@01 "3 '<0! 05 ; '01 '' %/0$" !<#" "0 ":# $#!<:'; :0'; ":' # '%#!' !-'10$"5'/#<#'01 <!!0!'#!<0.!"#$#-'A#22 0!' :' ; 5' :#3 ""#$'25 >31.3 % !T. $!9'>#/'' :'%#!' 0.'' 01 ":# ; 5'01 ":# $#!<:' $" 33#$5' !-'; :#!' ":# 11 $'< %#" "0 2# 0!# 01 <30 # B. $"#$ ':# :!-3#-' :' 3 ""3# 10$<# 0 ; #33' ": '' :# <0%/#33#-' :'10$% - 23# - #$ $5 "0 $#"$# '' ! 0%# <0!1. 0!' ":' '30 '!'>33#-' !-'; 0.!-#-' %0.!" !9 "0 8666 %#!F ":# !.%2#$01 ":#; :03# 01 A#22@' $%5' !<#" ":# $## !0 !#-'K'-5'01 ":#:# !9 U !'":#03-' !93 :'; $' !' $!<#' '%0$# 9 33 !'' !-' <$#-" 23# 11 $!' ":# ; 5'01 -#1#!- !9' '<0! 05 !-' $#/#33 !9 ":# 3 !"' : -'!0'' 2##!' $#<0$-#-' !' ":# !! 3'01 $

'?1</'78 /5/219 /@@ 1'676;912 ./27') 15< ./ ./27 .4?'/98@/A1?/''7 627;<78 .4'' ./274'?'1+'775 7 977C ;5./274A' /'97>/< 7 19C 78 .4'' /06974# 7 84=.' ./@1 9/'7>/2 15< 7>/2 1=145' /':1'# 75 75/' 7AA1'475# 6;894/< ;6 :4.'>154 0# 51221 45=' ./'A75 /'' 15<>4A 720 7 ./' ;C/'78 2=09/# :.7 .1<./12<./ 75/'87;=.# 15< ./'7./2 =145/<# 1'9/1'' 1 'A72/' 78 4?/'' H'2/A/4>/< 57 9/''' .15 87;2:7;5<'' 75 .1' <10'NI' '14< /@@

07;2 72A9'9446C;/:'@; ./.4' 720 78 .1 '4428 142# 07;
A7;9< 57 '@; .45C 4 '>/40 /0 772<45120# .7;=. 2/?/?@/2 07;2 7645475 78 4 '@/872/ 07;'9/8 '+'
H .2/ .1' @//5# 872 '7?/ 4?/# 1 @2/1A.' @/ :/5 ?0 1<0 129@727;=.' 15<?0 72< .1?@/29145#:.4A.' @/=;5 ;675 1'>/20 87794'.' 7AA1'475# @; '4' 57 :' A1224/< 7 '7 =2/1 ' 1 ./4=. # .1 ' './ 19C' 78 .4? >4 . ./ =2/1 /' ' A75 /?6 '45 ./ :729<#:.4A.' ./'4' :/ ' 1:12/ 78# 15<# '<12/' '10# .45C' ./ ' 15<' ;675 >/20 '9466/20 =27;5<) 15< 48 '. ./ .1' 24=. '/57;=.' :4 .' ?0 72< 2/1';2/2 L:.4A.' 57 75/' A15 <7;@ M# :499 A/2 14590 27; '.4?' 5<1' '.1>/' 57 75/&' 45 /2/' ' '7 ?;A.' 1 ' ./12 ' 1' 074?' 72<'.46&'# ' A15&' @; ' :4'.' 15< .76/ 7 '//' 07;2 ' 188 45 =77<.14D<'#:.4 ./2# ' .45C# 4 ' ?;' ' 51 ;F 21990 /5<# 48 ./2/' 4' ';A.' 1 .45=' 1' D;' 4A/';675 ./' 81A/' 78 ./' /12 .
H ' >/20 ;5.1660 1AA4</5 ' .1' @/8199/5 ./ ;'A7F >4 /' 1?@1''1<72#:.7# 18 /2 ./ .1< 1C/5 .4' 9/1>/' 78 ./' J;//5#:1'# @0 1' A7?@451 475 78 '/>/219 21</'?/5# 122/' /<# 15< 2/1 /< :4 .' 1 =77< </19 78 45'79/5A/' @0 ./' @149488 ' /' 12/' 18214< ./ ;''415 ?/2A.15 ' :499 610 </12 872 .4' 499B;'1=/ ' ./ 7;2 '.1' <75/' :.1 ' ./0 A7;9< 7 <4'A7;21=/ ./ 1A 475# 15< 77C ./ 6/2F '75' A75A/25/< 45 7 B ./ A;' 7<0 78 1 ?/''/5=/2) @; ' ./0 :/2/' '775 '/' 1 ' 94@/2 0 @0 ./ 1@/1' 726;' A ' 5 ./ ?/15 4?/ ./ 1?@1''1<72 .1' =75/' 1:10# 2/8;'F 45=' 94/' J;//5&' 62/'/5 # 15< ./2 01A.' .1 ' :1' 7 .1>/' A1224/<' 944?' 7 79915<' 5'1 '627@1@494 0 .4' ;5.1660 188142 :499 627<;A/' 15 1A ' 78 612941?/5 ' .4' 5/0 ' '/'F '475'# 7 62/>/5 ' 150 .45=' 78 ./ 51 ;2/ 1=145) 15< ./0 19C 78 '/5<45=' ?0 72< 12?12 ./5 7 ./ K12# 7 64/A/';6 ./ ?1 /2
H 0 1<0 129@727;=.' '.7:' 1'9/ /2 './ 941< 827?' ?0X 72< # 45 :.4A.' ./ '10' ./ .76/' .4' :499 @/ ./ 91' 'A1?614=5 ./ :499 @/ 7@94=/< 7 ?1C/ ' 5 2/ ;25 872 :.1 ' ' '/5<07;2 72<'.46# ./ 7590 .45=' </'42/ 7 ./12 4'# .1 '07;'12/'>/20 '775 7 9/1R/'!/54A/#:.4A.

4A7945 2/?145/< 45 5=915< 499 , #@/45= /'6/F A41990 81?744" 872 .4" 6/2872?15A/ 45 15</9&" 76/21 78 V 4519<7 & .2// 0/12" 91 /2 ./ 2/ ;25/<# B:./5 ./ 15< V 4519<7P 2/5</2/< ./ 6;@94A 1" /5 .;'41' 4A 1" @/872/ ;@'/J;/5 90# ./ :/ B;'/< >74A/ </A.5/< 45 ' 2/5= .15<'B' >//5/''") @; 4A7945 A75 45;/< 7 '45=# #5/>/2 ./9/''# 45 190# 1" 91 /1" , 3

4" A;247;" 7 ./12 !15@2;=. 1''/2 45= .1 ./ ?151=/2" .1< '7 ?150 76/21" 2/1<0 215'91 /< .1 ./2/ :7;9< @/57 :15 78 57>/9 0 872 0/12" 7 A7?/ 166490# 1 451?@1?/ @/872/ !15@2;=.&" 45</8454 /6/F 247< :1" 1 15 /5<# 15< 1 =2/1 A.15=/ /5';/< .4'& ?15 2/5</2'"&?;'4A1990 499;' 247;" ./ <7'45= 0/12" 78 W;//5 55/&" 2/4=5 4" .1 <90 5/A/''120 7 '10 .1 15</9 :1" .1 ?15 /A1?/ .4 ./2 45 , # :./5 1275 4 # 18 /2 1 948/ 78 =2/1 >124/ 0 45 21>/9# 94 /21 ;2/# 15< '6/A;91 475'# 87;5< .4?'/98 <42/A 72 78 ./ 76/21 :1" ./ :.7 62767'/< 7 15</9 ./ ';@D/A 78 4519<7 15< 2?4<1 872 15 ~6/21# 872 :.4A. 7''4E'027 /. /94@2/ 7 * @4 @0 @4 #@/45= 'A12A/90 1@9/ 7 ';6690 ./ A7?67'/2E'>4 .:72<" 1" 81' 1" ./91 +2 A7;9< '/ ./?7 4?6/24'.1@9/?;'4A

5 , # V 4519<7& </:</94=. /< A27:<'# 54=. 18 /2 54=. # .27;=.7; ./91 /2 .198 78 1 '/1'75") 15< ./51?/ 78 4A7845 :1" ./75/?7' 75 6/769/&" 946" :.7 97>/< 7 19C 78 >7A194' 15< >7A19 ?;'4A 4 V 4519<7 & ./6;@94A 872=7 V 9?1.4</& 15< V 0B <1'6/'#& ./62/A/<45= 76/21'# 45 ./91 /2 78 :.4A. ./5=94'.' '45=/2# 1:2/5A/# '15= 45 19415) 15< <<4'75 '14< 78 .4?# .1 :/2/4 5/A/''120 7=/ ;6 15 76/21 45 2//C# 1:2/5A/ :7;9< 9/125 2//C 45 1 872 54=. 1" A~22/A 90 1" ./.1< 9/125/< 19415N :1" 45 V 0<1'6/'& .1 7AA;22/< .1 81?7;" A7?@1 78 4A7945 :4 . ./9475# 7 :.7?/ :1" .27:5 872 1 '1A2484A/# ?62/'/5A/ 78 15 /594=. /5/< 1''/?@90 78 '6/A 1 72' ;1?75= ./91 /2 :1" ./?4' 2/ " 78 ./</>7 /< >4A 4?") 15< ./# 1C45= A7;21=/ 827?./2 G

4 4

62/''/5A/# 81A/<' 94/'' '19>1=/' /1'' # '';@<;/<'.4?'@0'872A/' 72'' ':// 5/''' 78'' '75=# 15<' ' 215=9/<'.4?'' 7'' ./'' 62/ 4/'' 1AA7?6154?/5 '' 78' 2499''' 15<' J;1>/2''' .1 '' /E+/2' '77 ./<' 1'=1227 /<' 972<' 78' ./' 872/'' E

./' 91 /2' 6910''' 1''' A75'64A;7;''' 1' 612 '' 45' ./' V 6/AF 1 72'& 1''' 4+'<4<' 45' ./' 76/21 '' /' 12/' 79<# 872' 45' 15A/# .1 '' ./' 6;@94A# :.7' .1<' /O6/A /<' 1' ';6690' 78' 1?/' 9475''' 827?'' ./' 7:/2# .1<# 46' 7' ./' 4?/' 78' R>24 45=# @//5' 2/1 /<' 7' .2//' <488/2/5 '' 9475'# 6910/<' @0' 1''' ?150' <4 /2/5 '' ?/5'' ';AA/''4>/9O# 45' ./' 75/' 'C45 '' 42'' 1' A15<9/B'5;88/2# :.7# 7:45='' .94A7945# 1' =2;<=/# :1''' A75F '4</2/<' 1''' 77' ?4'A.4/>7;')''/A75<9DE+# 1' 14972# :.7' <4/<' 77' 2/1<49O# @;'' 75A/' 2466/<' ;6' ./' '45=/2&'' 4=.'# 45' 72</2' .1 '' ./# ./' 1 972# ?4=.'' .1>/' 1'D7@')' 15<# .42<9O# 1' A7;5 2O' =/5 9/?15# :.7' 6910/<' 872' .4''' 1?;''/?/5 # 15<' <4<' 57 '' :4'.'' .4''' 51?/' 7' @/' C57:5# 9/'' '' .4''' 824/5<''' '.7;9<' </'4=51 /' .4?'' 1''' H' ./' 1''' 45' ./' 9475&'' 'C45 I' N V 4519<7'& :1''' 15' 76/21 '' '' ((6' :4 .'' '/5F '1 47519' 'A/54A' /88/A '# 15<# 45' 75/' 1A # 1' 894=.'' 78' 2/19' '61227:'# :.4A.'' =7 '' 45 7' ./' .7;''/' 15<' 89; /2/<' 7;'' ./'' :1O' A15<9/''' 4 .'199' .4'# ./' H' J;1. 0I' 78' W;//5' 55/&''' 4?/' :/2/' A75 /5)' '' 199' .4'# <<4'75' 49 /<' :4 .'' 69/1'15'' '1 42/' 15<' 94=.'' 91;=. /2# :.49/' 6;@94A' 15<' A24 4A''' /5D7O/<' E ./'' <21?1# ./' 'A/5/2O# 15<' 1A 72'# 15<' .1<' 57 '' 1' '45=9/' :72<' 78' A7??/5 '' 1''' 7' ./' ?/24 ''' 78' ./' 872/4=5' A7?67'/2# 15</9# /OA/6 '' 1' :72<' 72' :7' 78' '12A1'?' 827?' <<4'75# 89;5='' 1 '' ./' H' 05F .//2#I' :.7' .7;=.'' .4?'/98' ./' H' 26./;''' 78' ./' 1=/ I' ;'' ./' =2/1 '' /''104' '' .1<' 19'7' .4''' '.18 '' 7' 8945='' 1 '' ./' 76/21' 1;<4/5A/''' 78' W;//5' 55/&''' 4?/'' H 4;(' =2/1 '' =215<A.49<2/5#I' ./' '10'# H' :499' @/'' >/2O' A;247;''' 7' C57:'' ./' 2/1'75' :.O' ./42' 872/81 ./2''' ;'/<' 7' '4 '' 7=/ ./2' 94C/' 15' 1;<4/5A/' 78' 872/4=5/2''' 45' ./42' 7:5' A7;5 2O# 15<' 7' ./12' :.79/' 6910''' 1A /<' @/872/' ./?'' 45' 1' 75=;/' :.4A.'' ./O' A7;9<' 57 '' ;5</2' 15< I' ./' =2/1 '' =215<F A.49<2/5' ;5</2' 15<' ./' ?1 /2' />/5+'@/ /2' .15' <<4F '75' <4<') 15<' '7# 57' <7;@ # :499' ./' 8; ;2/' .4' 72415

A75A/2545=' : .7?' .`' '1?/' : 24 /2' 2/?12C''(H' 'A1557 '
872@/12' 9445C45='947 :' z1 ?E1990' 15' .4' 72415' : .7' : 24 /'' `
: 7' 72' .28/' . ;5<2/<' 0/12'' ./5A/# 15<' <7/'' 57 C57 :'
./' 1' /' 78' .4'' : 4'/' 874E/81 ./2'# : 499' ?1C/' ./' 87997 : F
45='2/89/A 475'(* V' 5' ./' @/=45545='78' ./' Q .' A/5 ?0'
./' 19415' 75=; /' : 1'' '7' : /99' ;5</2' 77<' 45' 5=915<#
B .1' 76/21'' : /2/' 1A /<' 75' ./' 6;@94A' ' 1=/' 45' .1'
915=;1=/ &I

198'78' ./' /O 2/?/' j /247<' 1@7>/' 51?/<' .1'' '45A/'
61''/<' 1 : 10# 14(+<' : ./5' 94/' 7 ./2' .198' .1'' =75/' @0# 4'
?10' @/' A7584</5 90' 62/<4A /<' .1' ./' .4' 72415' : 499'
/5 /2 145' 57' ';A.' ?/1';2/' 78' ';2624'/' 1'' 4'' ./2/' 45F
<4A1 /<

! 15@2;=.' .7;=.' W;//5' ?4-&'' 76/21B=745=' ';@F
D/A '' : 7;9<' 57' 2/J;42/' 57>/9 0' ./0' @7 .' 2/J;42/<'
15<' 7@ 145/<' 4' V 5 47A.;'& A.199/5=/<' ./' /12'' 78'
./' 7 : 5' 18 /2' V "4519<7#& 15<' ./5' A1?/' /57' 15<'
1'619&454&'' V 1?9/ #& 72' V ?@9/ 7#& 1'' 4' 4'' A1A76.754B'
A1 0' 2/5</2/<' 45' 19415# ./' 7>/2 ;2/' 78' : .4A.' .1<'
H'87;2' ?7>/?/5 '' /5<45='45' 1' D4='N I' V 1A@/ .'& .1'
@//5' A75>/2 /<' 45 7' @7 .' 76/21' 15<' @199/ ' 5' ./'
91 /2' 45' 15A/# ./'<4'97019' .15/'45 /262/ /<' H' '' .4'' 1'
<1==/2' : .4A.' ' '//' @/872/' ?/'S I' 45' 1' ')' 15<' ./'
15<' .4'' 91<0' =1>/' ./' 18 /2B'A/5/' 78' ./' ? ;2</2' 45' 1'
/22484A' 15<' .198BD;@4915' ' ' J' ' ! /2<4' .1''
' 2;==9/<' 45' 157 ./2' : 10' >4 .' ./' ?15' 78'<77?')' @;'
1?9/ # 18 /2' 15' 7>/2 ;2/' /5<45=' : 4 .' 1' D4=# ?;' ' .1>/'
87;5<' =2/1 /2'<4884A;9 0' 45' A75>/2 45=' H' 7' @/# 72' 57' 7'
@/# I' 45 7' 1' >7A19' '797

E 'K' 7' : .1'<488/2/5' ';@D/A ''<7' ./'5/O' : 7'
9/ /2'' @245=';''N

' ' ' ' '

!' $ ' >E>?+' ' $%

H' '.1>/'2/A/4>/<' ./'.757;2'78'07;2' 72<'.46&'' 9/ /2'
78' ./'3 .' $;90# +7;' .1>/' .1<' ./' =77<5/'' 7' =4>/'
07;2'/98' ?72/' 27;@9/'45' ?0''?199' 188142'' .15' ' .7;=.

4' 4' #

4 ' 67' '4@9/' 872' 1' ? 15' 7' <7# 15<' 12/' ? 72/' 612 4A ; 912' 15<' /O1A ' . 15' />/2' ' ? / ' : 4 . ' 150@7<0' 45' ? 0' 948/ ' ' : 4' . ' ' ? 10' . 1>/' 15' 76672 ; 54 0' 78' 2/ ; 2545=' . /' 81>7 ; 2'' ' . 1>/' 2/A/4>/<' 827 ?' 07 ;)'E872' 45</ /<' ' . 1>/' 1' >/20' =77<' : 499' 7' <7' '7# @ ; ' 872' ? 0' 1@494 0' ' A15& ' >/20' ? ; A . ' ' </ '42/' 07 ; 2' 72<' . 46' : 499' @/' 69/1' /<' 7' =4>/' <82/A 475'' 872' 7' . 1>/' ? 1</' . /' J ; 15 4 0' 78' <1 ? 1 'C'' 15<' >/9>/ '' . 1 ' ' . 1>/' 6 ; ' <7 : 5# 45' 5=94' . ' ? /1' ; 2/' * '78' . /' =2//5' <1 ? 1 'C# # '012<')' 0/997 : ' <1 ? 1 'C# 3 '012<')' A24 ? '75' <1 ? 1 'C# 3 '012<')' 'A149/ ' 69145' >/9>/ # ' 012<')' 69145' @9 ; /' >/9>/ # '012<')' 'A129/ ' <1 ? 1 'C# . /' '1 ? /' A797 ; 2' 1'' . /' >/9>/ # '012<')' 'A129/ ' '1 45# '012<')' @9 ; /' '1 45# '1 ? /' A797 ? ' 1'' . /' >/9>/ # '012<')' @9 ; /' <1 ? 1 'C# '1 ? /' A797 ; 2' 1'' . /' >/9>/ # '012<' ' 7 ; 2' 72<' . 46' '10'' 'A129/ ' 4'' . /' ? 72/' <4884A ; 9 ' A797 ; 2# 15<' '/ / ? '' 7' . 45C' . /0' <7' 57 ' <0/' . 1 ' '7' : /99' 1'' : /' <7# 872' ' . 45C' . 1 ' 07 ; ' '/5 ' ? /' : 1'' . /' ? 7' ' @/1 ; 48 ; 9' A797 ; 2' ' />/2' '1 : # 15<' <' . C/' 4 ' @/ /2' 872' 1' @/<' . 15' A24 ? '75# @/45=' 9/' '' A7 ? ? 75' 1'' : /99' 1'' ? ; A . ' . 15<'7 ? /2 ' '' 7' . /' @2/1< . '' 78' . /' >/9>/ # ' : 7 ; 9<' 57 ' . 1>/' . / ?' 6 ; ' 7 ; ' 78' . /42' : 10# 872' . /' '? 199' @2/1< . '' : 499' <7' >/20' : /99# 15<' . /' <1 ? 1 'C'' ? ; ' ' @/' 1AA72<45=' 7' . /' 61 /25'' 07 ; ' '/5<# @/A1 ; '/' ' . 1>/' ? 0' ? /1' ; 2/' @0' . / ? ' 7 : 4 . ' 15<45=' 1 ' . 4'' . 1 ' ' . 1>/' 27 ; @9/<' 07 ; 2' 72<' . 46' : 4 . # '@/94/>/' ' '. 199' @/' 872A/<' 7' 27 ; @9/' 07 ; ' 1=145' 872' 1' >1' ' </19' ' '. 199' : 15 ' 7' 8 ; 254' . ' . 1 ' . 7 ; '/# 872' 07 ; ' 12/' '7' =77<' ' A15' =7' 7' 575/' /9'/# 15<' &'4'' . /' A7 ? ? 75' : 10' 78' . /' : 729<' 7' A75'4</2' 75/&'' '/98' 45' . /' 842' ' 691A/# '7' 07 ; ' : 499' 57 ' : 75</2' 1 ' ? /' . 1>45=' <21 : 5' . 4'' 27 ; @9/' 75' 07 ; 2' /98 ' . /' 84= ; 2/<' >/9>/ '' 78' =/5/219' A797 ; 2'' 12/' 57 ' ? ; A . ' . C/<# . 7 ; = . ' 45' . /' 81' . 475)' @ ; ' ' '. 7 ; 9<' . C/' ? 4= . 490' 'A129/ ' 84= ; 2/<' >/9>/ ' : 4 . 7 ; ' 150' ? 4O ; 2/' 78' A797 ; 2'# 15<' @9 ; /' 15<' =2//5' . /' '1 ? /)' 15<' : . /5' 07 ; 2' 72<' . 46' . 1'' . /' 76672 ; 54 0# ' '. 7 ; 9<' @/' =91<' 7' '//' 1' 61 /25' 78' . / ?') @ ; ' 78' . 1 ' . /2/' 4'' 57' . 1' /) 15<' : . /5' 150' 612 ' 78' . / ? &12/' <75/# ' C57 : ' 07 ? ' 72<' . 46' . 1'' A75B

?1</#572A./16/2 845<07;16627>/78 ./'A129/15<
@9;/ :.4A. '/5 (4 4'1'=/5/219 57 475 .1 'A129/4'
@/ /245 5=915< * :.1 4' ?1C45=872 07;2 21A/4'
78 ./'1?/A797;2'#@; ?;A.?72/@/1; 48;9 ?;'
57:@/=9/1>/ 7 2/4;?07;2 21A/?0?7' ; ?7'
1AC57:9/<=/?/5 '872 ./C45<1AA/6 15A/78 ./94 9/
'/2>4A/ A15 <7 07;# 15< .1>/?0 /5< 48 A15
7@ 145 @0 .4'?/15' ./A75 45;1 475 78 07;2 =77<
7645475#:.4A. <7?;A.</'42/ '872 7./2?1 /2'#
.1>/19:10'@//5 78 1 /?6/2 7 9/4 1C/4 '81 /#
15<.7;=. .1>/@//5 45>/20 A75'4</21@9/67' '#0/
.1>/19:10' /5</1>7;2/< 7 <4'A.12=/ ./?:4 .
.757;2 15< 45 /=24 0#:4 .7; 2/=12< 7 ./612 4A;912
15< 624>1 /45 /2/' '+78 ?0 81?490 ?10 57 19:10'
@/ ./:10 78 ./:729<#@; A15 5/>/2 <7 7 ./2:4'/
<7 57 '10@; 4 4'1' 1 .16645/'':./5 @7 .?//)15<
'.199 /'//?4 1 =2/1 .757;2 7 @/ /?6970/<@0 ./2
1D/'0 :./5 ./2 '/2>4A/ :499 1<?4 78 4 5 ./
?/15 4?/# 2 !15@2;=.'.1' @;49 ?/1 .7;'/'45A/
A1?/1:10(?0 .7;=. ' 15< 4?/12/75 8;254'.45=
15<8454'.45= .1>/';A.7@94=1 475' 7?0 72< 2/1F
';2/2# 15< .1>/2/A/4>/<'7 ?150 62778' 78 .4'824/5<F
'.46# .1 :.49/ 94>/ '.199 />/2 .1>/1 '/5'/78 4 #
.7;=.' 1?' '/5'4@9/4 A15 5/>/2 @/45 ?067:/2 7
=4>/ .7'/</?75' 21 475' :4'.' A7;9< 15< 7;=.
.1>/78 /5 ./.757;2 7 ./12 827?./ ;C/78
129@727;=. /?10 '775 ./12 78 157 ./2 1A 475
1?# bA #

4 .'7?/?72/91' :72<' 7 72< ;5</2915<# 45
./5/0 :7 9/ /2'# 15<1 824/5<90 H @75 >701=/I 827?
129@727;=.' 45 ./ .42<# .4' A722/'675</5A/A97'/'

U `

,C+ 3. $%

 * .1>/ /5A97'/< 7 07;2 72<'.46 :.1
'14< 1 ?0 +1;<4/5A/ 87;5< ./<7=/.1< 67:/2

15<' A;9 4>1 45=' 78' ./' '749' .Y' 2/5A.' .1<' <75/' @/ /2' ./2/' .15' 7;2'/9>/'') 15<' ./' A42A;?' 15A/' 78' ./42'45 /5;12241=/'' :4 .' ./' 5<415'# 15<' ./' 1AA7;5' 7' :.4A.' ';A.' ?12241=/'' :/2/' ;25/<# 12/' '?=;912' 15<' 57 /:72 .0

./'2/8/2/5A/' 7' ./' /2?'' 78' ./' 2/1 0' 78' 2/A.# 1'' 2/=12</<' 7>1' A7 41# 15<' 612 4A;91290' ./' 2/5A.' '/ 9/2'' ./2/# 4'' 19'7' 2/?12C1@9/' .1' 2/1 0' 57' 7590' /2?451 /<' ./' :12'' 78' W;//5' 55/# '/A;2/<' 7;2' 27 /' 15' ';AA/''475# '/6121 /<' 872' />/2' ./' A27:5'' 78' 215A/' 15<' 6145# 15<' </' 270/<' ./' 872 484A1 475'' 78' ;5C42C# @;' ?1</' /'6/A419' 627>4'475' 872' ./' /5912=/F ?/5' 78' ./' 24 4'.'A79754/'' 15<' 67''/''475'' 45' ?/24A1 ./'2/?12C'' 75' .6'627624/ 0'78'2/?7>45=' ./' 2/5A.' A79754' '# :.7' <7' 57' 166/12' 7' .1>/' C/6' 814 .' :4 .' ./'=7>/25?/5 * 9/<# ';@'/J;/5 90# 7' .1'' /6' :.4A.' 8 ;254'./<' 75=8/997:' :4 .' ./' ';@D/A' 78' .4'' 67/?# V >15=/945/ &

' ' . ' ` ' A

' 'C ' ' @ * 5'7@/<4/5A/' 7'07;2' 1D/' 0&'' A7??15<'# :/' .1>/'62/612/<' ./' 87997:45=' '1 /' 78' 07;2' 1#[/' 0&'' 6915 1 475'' 75' ./' A75 45/5' 78' ?/24A1# :./2/45' :/' .1>/'<4' ?=;4'./<' ./42'2/'6/A 4>/' '4 ;1 475'# =7>/25?/5 '# 2/5= .' 15<' 21</# 15<' .1>/' 7@'/2>/<' 78' :.1' 4?672 15A/' ./42' A7??/2A/' 4'' 7' 2/1' 24 145') :./2/;5 7' .1>45=' 1<</<' 15' 1AA7;5' 78' ./' 2/5A.' '/ 9/?/5 '# 15<' 78' ./' /5A271A.?/5 '' ./0' .1>/' ?1</' 75'07;2' 1D/' 0&'' A79750'' 45' .7'/' 612 '# :/' .1>/' .;?@90'62767'/<' ';A.' ?/ .7<'' 1'' ?10' @/' '62/F >/5' ./' 45A2/1'/' 78' 15' />49' :.4A.# 48' 57' 4?/90' 62/>/5 /<# ?10' 627>/' </' 2;A 4>/' 7' 07?(1D/' 0&'' 45 /2/' '') 15<' .1>/' .C/:4'/' 788/2/<' ';A.' A75'4</21 475' 1'# 45' 7;2' 7645475# ?10'A75 24@; /' 7' ./'4?627>45=' 15<' /5912=45=' 78' 07;2' 1D/' 0&'' <7?45475'' 45' ?/24A1 H 7;2' 1D/' 0&'' 6915 1 475'' 75']./' A75 45/5' 78' ?/24A1# @/=45545=' 827?' ./' 572 .# 12/# 7>1' A7 41#

K' "' ; ' /$0 -#-' 25' ":#' $# "5' 01' "$#<:"' ": "' ":#' $#!<:' !: 2" !"' 01' 0 ' <0" ' :0.3-' : #' '5# $' 330 ;#-' "3,#%' "0' $#%0 #' 1$0%' ":#!<#' ; ":' ":# $' #11#<" ' 2."' ":#5' : #' 30!9' !<#' 3 / #-' ":#' "%#? !-' .<:' ' $#% !#-' 2#50!-' "' $#' 25' ":#' 1 $ "' "$# "5' "0' 2#<0%#' .2N#<" ' "0' :#$' 3 "#' N# "5? 2."' ":# #' /#0/3#' 2# !9' !13.#!<#-' 25' ":# $' N3$ # " ' : #' : ":#$"0' .! ! %0. 35' $#1. #-' "0' " >#' ":#' 0 ": ' 01' 33#9 !<#' "0' 50.$' N# "5' ; ":0."' !' #4<#/" 0!' !' 1 0.$' 01' $!<#' ; : <:' ; 0.3-' $#!-#$' ":#' #!9 9#%#!" ' "0' 50.$' N# "5' #!" $#35' !D #11#<". 3' ."' ' ; #' 10$# ;' ": "' - 11 <.3" # ' #$#' 3 >#35' "0' $ #' ./0!' ": ' .2N#<"' 0' !' ":#' ! "$.<" 0! ' : <:' ;#' /$#/ $#-' 10$' 03' : 3 / ' 50.$' N# "5@' 90 #$!0$' 01' ": ' /$0 .!<#' ' /$0 0!' ' .L -#' 10$"3.' < #' !-' :#' ' #!N0 !#-' "0' /$0: 2 "' ":#' $#!<:' !: 2" !" ' $#1. D !9' "0' " >#' ":#' 0 ": ' ":#' 3 2#$"5' 01' 1 : !9' 0!' ":#' <0 "' !-' "0' /$# #!"' ":# $' $#%0 !9' ":# $' #11#<" ' " 33' 50.$' N# "5@' 1.$":#$' /3# .$#' : 33' 2#' >!0 !? !-' <0!D -#$!9' ":# $' 2#: !0.$' ;#' $#' 01' 0/ ! 0!' "' 133' 2#' 10$' 50.$' N# "5@' #$ <#' ": "' ":#5' :0.3-' 2#' 0$-#$#-' "0' B. "' ":#' /$0 !<#' ."' ' "0' ":#%' #11#<" ' !' $#9 $-' 01' ":#' 1$ #!- : /' .2 " !9' 2#" ##!' ":#' " ;0' ! " 0! ' /$0 -#-' ":#' @#!<:' !: 2" !" ' -0' 3# #' ":# $' %%0 #D 23#' #11#<" ' .<:' ' 2 $! ' !-' <3 #33 !9H:0. # ' !' 900-' <0!-" 0!' #' :0.3-' :.%235' <0!<# #' ":#5' % 9:" ' 25' 50.$' N# "5@' /#< 3' 9$ <#' 2#' 330 ;#-' "0' < $$5' O11W' "0' .<13' /3 <# ' ' ":#5' : 33' "3 !>' %0 "' <0! #! #!" ' ' ":# $' %0 # 23#

K' /0!' ":# $' $#%0 3' ": ' /$0 !<#' ; 33' 2#<0%#' 3%0 "' #!" $#35' .!/#0/3#-? !-' ' "' ' ":#' !0$":#$!' 1$0!" #$' "0' 50.$' N# "5@' <0301! # ' ; #' ": !>' "' ' 01' ":#' : 9:# "' <0! #B.#!<#' ": "' ":#' %#' :0.3-' 2#' #""3#-' ' 00!' ' /0 23#' 10$' : <:' $# 0!' #' ; 0.3-' :.%235' /$0/0 #' "0' 50.$' N# "5' ":#' #!- !9' 01' 10.$' $#9 %#!" ' ":#$#? !-' 3":0.9:' #' $#' #! 23#' 01' ":#' #4/#! #' ": ' 0.3-' 0<< 0!' 10$' 0%#" %#' "0' P$# "' $" !' 5#"' ; #' 2#3 # #' ":#' %#' ; 33' !0"' 2#' ":0.9:"' %$# 0! 2"#' <0! -#$!9

. /' 45A9451 475' . /' 2/5A94' .1>/' '.7:5' 7' /5A271A.' ;675' 07;2' 1D/'0&*' /224 724/''45' ./'/'612 ')' ./'=2/1' '2/5=.' ./0' .1>/' 1' 16/' 2/ 75# 45' ./' [4/4=.@7;2B' .77<' 78' .4'' 627>45A/# :.4A.' :499' @/' 45A2/1''/<' @0' ./' 2/?7>19' 78' ./' 2/5A.' 45.1@4 15 '' 827?' 7>1' A7 41

H /' 12/' .C/:4'/' 78' 7645475' .1' 199' <;/' /5A7;21=/F ?/5' '.7;9<' @/'=4>/5' 7' ';A.' 78' 07;2' 1D/'0&*' ';@D/A '' 1'' '.199' /' :49945=' 7' '/ 9/' 45' .4'' 627>45A/# 15<' .1' 07;2' 1D/'0&*' =7>/2572' ?10' @/' /51@9/<' 7' 6;2';/' .4'' 45' 2;A475'' ;675' .4'' ./1<# :/' 1C/' ./' .@/2 0' 7' 910' @/872/' 07;2' 1D/'0' ./' 5/A/''4 0' ./2/' 4'' .1' 07;2' 1D/'0&*' ;4:/072B /5/219' 78' ./' 77<'' '.7;9<' @/' 872 .+>4 .' 72</2/<' 7' 2/6142' 7' 7>1' A7 41# ./2/' 7' '/' 1612' # ' 1A2/'E 45' A/2 145' 21A '' 78' 915<# A75 4F =;7;'' 7' ./' '/1BA71'# 72' 51>4=1@9/' 24>/2'' 6276/2' 872' 627<;A45=' 78' ?1' '' 15<' 7 ./2' 4?@/2' 872' ./' '/2>4A/' 78' 07;2' 1D/'0&*' 27019' 51>0)' 872# 18 /2' .4'' '.199' @/' <75/# 15<' 57' @/872/' .1 # ./'=7>/2572' 4'' /?67:/2/<' @0' .4'' 45' 2;A475'' 7' ?1C/'=215 '' 78' 915<' 45' '?199' 612A/9'' 78' J;4' 2/5 # 1''/''/<' 7' 07;2' 1D/'0# 78' 75/' '.49945=# 72' 78' .2//' 67;5<'' 78' ./?6' 872' ./' '/2>4A/' 78' 07;2' 27019' 51>0# 872' />/20' 848 0' 75'

H' 8' .4'' A7;5 20' :1'' :/99' '/ 9/<# 4' :7;9<' @/' A161@9/' 78' 1'>/20' /O /5'4>/' 21</' . /2/' 12/' 7' @/' .1<' 1''=77<' ?1' '' 1'' 150' 45' 1' ?/24A1# 45' =2/1' 69/5 0' 4 A.# 12# 27'45# 15<' ;26/5 45/# ?10' @/' ?1</' 45' 1' 612 '' 78' ./' A7;5 20) 15<' ./?6' 15<' 8910' ?4=.' @/' 214'/<' ./2/' :4 .7;' =2/1' /O6/5'/' 7' :.4A.# 45' 7;2' 76?475# 199' <;/' /5A7;21=/?/5' '.7;9<' @/'=4>/5# .1' 2/1' 24 145' ?10# 45' 4?/# @/A7?/' 45</6/5</5' 78' ./2' 572 ./25' 5/4=.@7;2'' 872' 51>19' ' 72/'

H ;' ./' @215A.' 78' 21</' 45' .4'' A7;5 20' :.4A.' '//?'' ?7''A161@9/' 78' 4??/<41 /' 4?627>/?/5 # 4'' .1' 78' ./' 84'./40' ;675' ./' A71'# 827?' 16/' 1@9/' 7' ./' ;98' 78' 15'7# :.4A.' 4'' 6/2.16'' ?72/' >19;1@9/' .15' 150' 7 ./2' 45' ?/24A1' ;# 872' :15' 78' 627 /A475' 1=145'' ./' 49<415'' 45.1@4 45=+' 7>1' A7 41# :.7' 12/' /5 42/90' 45' ./' 2/5A.' 45 /2/'# 8/:' 24 4'.'>/''/9'' <12/

>/5 ;2/' 7' A;2/' ./42'84'.' ./2/) 15<' ./' 4E/5A.'827?'
16/' 2/ 75# A75 2120' 7' ./' 2/1 0' 78' 2/A.' L@0'
:.4A.' ./+'12/' 7 199O'/OA9;</<'827?'199'C45<'78'84'.45='
75' ./' A71'"' :.4A.' ./' 7:12<"' ./' /1'#@/=44?45='
827?' ./'4'915<'A7??7590'A199/<' 199/'#45A9;'4>/9O#15<'
./5A/''2/A.45='1975=' 7:12<"' ./''7; .B:/'M#/5=27'"'
19?7'' ./'/5 ?/'@/5/84'78' .4"'>19;1@9/' 21</#' 7':.4A.'
./0'.1>/#'/' ;6' 15';52/1'751@9/'62/ /5A/#1"166/12"'
@0' ./' <149O'<4'6; /"' :/' .1>/' :4 .' ./?# A75A/2545=
./' 84'./20'1' BBBBBB' 72':.4A.'2/1'75'4':7;9<'@/
872'07;2' 1D/'0&"'/2>4A/# .1'7?/''?199'872 "' ?4=.'
@/'@;49#:4 .7;'97'"'78'4?/#45'6276/2'691A/'#;675' ./'
A71'#75'4'915<"'827?' 16/' 199/"' 7' ./' ;'78' 15'7#
872' ./' '/A;24 0'78' .4"' 21</#15<'612 4A;91290'75' '
/72=/&"' '915<#:.4A.'4"'75/'78' .7'/':.4A.'872?' ./'
16/'78' 15'7#15<'.1"' ./'=2/1 /''A7??15<'78' ./'
. 9/'@10' ./2/#:.4A.':499'@/' ./' ?72/'5/A/''120'45'
2/=12<' .1' ./2/'12/'57'872 "'72'872 484A1 475"'45' .4"'
627>45A/#@;' 75/'1' 55167."' 7=19#45' ./' 10'78'
;5<0#:4 .'1'=1224'75'78'84>/'A7?6150"'78'1@7;'872 0'
?/5'/1A.) :./2/1"' ./' 2/5A.'1' 16/' 2/ 75'12/'>/20'
'275=#.1>45='@;49' :7' A75'4</21@9/'872 "' ./2/#=4>/'
199' ?155/2'78' /5A7;21=/?/5' 7' ';A.'6/769/'1"'12/'
:49.5=' 7''/ 9/':4 .' ./?# 15<'12/'1A;199O''/ .5='
'7?/'7 ./2'4'915<"'75' ./'A71''78'E 7>1' A7 41' ':499'
9494/:4'/'@/'78'=2/1'4?672 15A/' .1'1''?199'?15B78B:12'
'.7;9<'@/' A75' 15 90'/?6970/<' 7' 1 /5<' .4"' A79750#
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45A/' ./'1@7>/'<7A;?/5':1"914<'@/872/' /72=/' #
7>1' A7 41'.1"'@//5':4A/'97'#45' , -'15<' ,-Q#@;'
4':1"'8451990'A75842?/<' 7' 5=915<'45' ,3 ' @7;'1'
J;12 /2'78'1'A/5 4;0'91 /2#4':1"'<4>4</<45 7':7'627F
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;AC45=.1?# /72=/ ! 4994/2'' ;C/ 78# @7227:'' 72<' 15</>499/&'' ?75/0#4' 4''A7;''45' ;''15F 51.' 499# ?1224/<' 7' <:12< 75 1=88#''75'78' 72<' 15</>494/# # 4''2/'4</5A/'1' !198 945=872<' 7;''# 4''9/ /2' 7' 75 1=;'75' ./'</1.' 78'.4'':48/# 4''1@724>/'1 1AC'75' ./ '915<'78' .Y# Q' ./' 129' 78' 15A./''/28'' 9/ /2' 7' .4?# ?6970'' !19/2' 75 1=;'' 75'1''/A2/'?4''475' 7' 215A/#44'' /2>4A/'' 2/5</2/<' @0' ./' ;C/' 7' ./' 5=94'.''/2>4A/# ,42A;?8' '15//''78',4''1''1''451 475# ;AC45=.1?# 7;5/''' 78#?7'./2'78' /72=/' ! 4994/2'# 4' ;AC45=.1?''.42/' 15<' 72?15@0# $7.5' ./884/9<# ;C/' 78# 44' 3Q)' 1224/'' ./'<1;=./2'78' .129/'' @0' 1 ./245/' /<9/0# 3Q' ;7575A454# ./' ?;'4A415# 44' # 4''76/21'78' V 1?4991#& 4''?;'4A'1'./'76/21'.7;'/'45' ./' 10?12C/ # Q # 5F =1=/<'1'' A7?67'/2' 7' ./' 19415' 76/21# Q ;2=.9/0# ! 49941?' /A49' 72<'1 /A49#'.4''4995/''#4' 4' 15';/2''7'./' 6154'.'1?@1''1<72# -' 4''<1;=./2' 55/'?1224/<' 7' ./' 129'78' 0872<# -' 4' 9/ /2''7' @@9'45=.1?'1''7' ./' ;C/'78' 9/5{75# 5<'1'' 7' ./' 5=94'.'45' 215A/'<;245=' ./'?1''1A2/'78' 12.797?/:# 3' 7?69145''78'94@/9''6;@94'./<' 1=145''.4?'45' 215A/# - ;2=7J;# ;C/'78#</8/1/<'@0'$7.5' ;C/'78' 15A1'/2#4' 3' ;2=:5<0# ;C/'78#</8/1/<'1' ;</8' :52</#44'' -3 ;2945=75# 129' 78# .4''<1;=./2' ?1224/<' 7' <:12<''/A75<' 129'78' 15<:4A.#44' Q >--5>EB?'5-' -54+,-'+B,' A*45=;+,' 1=/5#44' # ;9/2#./'$1A7@4/#.4''45872?1475' 1'' 7' 1'</'4=5' 1=145'' ./'948/'78' !49941?' #44' 3# Q' /5'7' 5=915<# ;75# 270/A'78'./#44' , 05=# <?4219' 42' /72=/#44' - 4'' >7/'75' ./' A7 4'.' 24>0' 7;5A49# , 149/<'1''./'A.1?F 6475'78' A7915<# ,-' /872/' ;58' J;/2J:/# 121''/''./'2/5A.' 1<?4219' 72'45# a' 5'8;99'/.1A/' 78'./' 2/5A.89//# 3# 1C/' 72<' 248845' 624'75/2# 2/F >/5''./' 2/5A.'89//'827?'<745=' .12?# 3# Q' AA;''/<'78'5/=F 94=/5A/# 3' /'79;475'78'./' 7?2?75'' 75' .4'' A75<;A# 3' 2/1/<' 1275' 05='15<' 4'A7;5' 72245=75# 3-' 5' ./' 24.'78' 72.# 44' 3 ! # 129'78# C499/<'1' /:@;20# 4' - *)*;?'9,,+;0E'58' ,0-7' ! '*01' -*0s5;?' '*+'.' *9=-*7' ,*E>,'58',' 3' 2 *9=-;1E,' 0;6,-?;+7';0' -Q #;' Q' B,'?+*+>+,?'58'+B*+' C,-;51' Q' B' Q3 V 1?4991#& ;75751/4548'' 76/21'78# 44' 1?6@/99# 42' ;=.#8728/4;2/'78'.4'' /'1'/# 44' , 1?6@/99# 16145# 45' 215A/# 44' , 1?6</5' 7;''/# 4' 1?6/==47# 12<4519# 166745/<' @0' ./' 76/' 7' 2 &' ./'>194<4 0'78'./' ?12241=/'78' /520' ! 494# 4' -3' 224>/'' 45' 75<75# -3' 4'' ''/F A2/'' 45' 2;A475'' 827?'' ./' 76/# -3' 5</1>7;2'' 7'45<;A/' 1.1F 245/' 7' 1C/' ./'>/49# -3' 6/5'' .4'' A7;2# 3 *9C;50' ;??'+B,' 654*);?+';;' . B,' >D,'58' ,650?B;-,? " 85-' ,-' 950>9,0# *+' *+;< 9,-?' 1575' 7:# /'?45'/2# 4' - 16;A4;''78'.1C'6/12/# 4' 3' 12@/220# 72<# 44'-,' 4'' A.121AF /2'3 *-1;E*0' 5-1'9*--;,? ?*=,))*' *17' ,*>);,>'4' Q' -,*+,1' >D,'58' 50+*E>' Q 12<4=15# .42<' 129'78# 44' 12/:# 7?# 44' # 125/# 42' <:12<#/0A;'1 72'78' /520' ! '45' 190# 4' 127945/# W;//5'78' /72=/' # ./ ;C/'78' 218 75'15<# 44' 12/2/# 2# .4''?12241=/';4.' 1<0' $/?4?1' 75 1=;# 44' 3' 12099# 2# ?1</'1'@1275'@0'$1?/' # 44' # 1'./9# 2A.@4'.76' 78##45' 124'# 4' - *?+),' 5@*-1' *0=->EB.? C)*0?85-' 44'-3'3 1'9/?545&/# 1<0#15<' 799' 7?7?75# 4',3' 88/2' 2/1?/5'78' .129/' # ,3

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=-5>EB‚ 56,- =7 5-1 *>1@;4= :; ;?9;??*) 58 B,- *?+,- 58+B, 5-?, 1>/5<4'9[; 72<$1?/'#.4''?12241=/ :4.'$98'' 19/#44 3 1>/5<4'94 1<0 / 0#?1224/< 7 42$7.5 /5:72.#44 33 ,4;) ;- ;));*9'B;?C5-+-*;+@5-0 50+B, -;04,??);I*=,+B.?*-9 ; 3 B*-E,1=7 , U>*1-* @;+B@;?B;OE+5 4B*OE,'+B,'17O*?+7 #%o f -,*+,1 *-50 >-EB),7 + >-EB),7 /A49# 1<0 4151#?1224/< 7 /520 <7 +A2/#4 3 /2<1=5/ 61;5/< @0 6145 7 215A/#4 /?6''?1</ 7 2/A7>/2 4# # /A7>/2/< @0 /2515<7 # .1?@/29145# 42 <:12<#45 W;//5 1.1245/&.7;'/.79<#4 Q, .1?@/29145#./ 72<#.4''7662/''4>/ </?15<''75 ./?151=/2''78 ./ 76/21#44 ,-# ,, .15<7''78 ;</9/0#848. 1275#./ H#"45=JM 7':79<#I'44'Q /F :4A./<7</1.#Q .15<7''78 ;</9/0#'4O. 1275#44 Q 4''97''/''45./ 4>49 12'# Q "499'' 7975/9 7?6 75 45 1' <;/9#Q 4''</1.#Q B*0157 58 >1,),7'?,6,0+B *-50 44'Q .166;4'# 75 ;'1AA.47#1'"4?8 @79 75#4 /5'1''1?@1''1<72 827?' .129/''!' 7 75<75# 3 4''1<>4A/'7'./'<4>72A/<'W;//5# Q /2'A722/'675</5A/':4.'.4?# QQ /2'91'9/ /2'7'.4?# , 4''>4'4'7'./2# .129/'# 2A.<;C/'L18/2:12<''./ ?6/272'.129/''!M#199415A/'@/F :///5'.4?'15<'./ 245A/'' 120 872?/<#4', .129/''!#>4'4'' /520'! 1' 7;?10# Q /27./<'7' 180 ;<72# 3' 7?/''7' 7>/2'15<' 788/2''.4''.15<'7'./2# @D/AF 475''214'/<'@0'./ 72/''78'1'49/# 2/1C''.4''2/1 0'4.' 120 15<'?1224/''./ 5815 1''1@/9'78 72;=19# /12''827?'W;//5 1.1245/'78'./'62767'/<'199415A/' @/:///5' 215A/'15<' 5=915<# 4''62767'19''7' /520'! # - /5<''.4'' 915KC5/A.'' 7' 7?/# 15<''1AC''./'A4 0# - /2?''78' ./'2/1 0'872A/<'827?'./' 76/# - ./' 2/140'78' 12A/9751# 3 .129/''.15=''./' 1619 @24/8'1=145''/520'75'./'A.;'2A.' <772''78'2;'''/9''15<'5:/26#3 2767'/''7'?1220'.4''51;219'<1;=.F /2'7' 9/''15<27'</ /<4A4# 4''>4A 724/''7>/2'./';9 15' 790 8' ?15#, 7/''7' 797=51'7''/ 9/ ./'J;/'475'78'./' 5=94''?12241=/# / /2'827?'W;//5' 1.1245/' 7'.4?# ,- .129/''# 2A.<;C/'78' ;'241#'75'78' ./' ?6/272' /2<4515<' #''/''872' ./'.15<'78'W;//5' 94K1@/.#4' /672'78' ;''/0'75'.4?# .129/''# ./' 2A.<;C/#'7;'78' ./' ?6/272' /7679<' #44' 3 4915' =4>/5'7'.4?# 3 .129/''# 245A/' L18/2:12<'' "45= .129/'' M#.4''27?15 4A'07;25/0' 45 7' 612+4' 4''1AA/''475'7' ./'.275/# - + .129/'' .129/'' #.4''1AA/''475#4' - 78' 4A/''0'/?'45'./'/1290'612'78'.4'' 2/4=5# /A199''79<'A.12/2'' 15<'4'';/'5/:'75/'# , ?6/1A./'' <:12< 72<''4?@59 75# 4'' 1557015A/'1'./'8149;2/'78' 72<' /5@4=.'@/872/' 7A./99/#44'3 4'' 9/ /2'7'./' 129'78' 45<'/0# .129/'' #.4'';5'//?90'45 /28/2/5A/' 45'1'6910'247#4' ,3' 7:'2/1/<' @0' 1<0' 1'9/?145/# ,3' 4'' 2/'721 475# 4''75#./' ;C/' 78' 9@15'#44' /672'78'.4'' <045='1' 7?1;' 1.794A#Q- 4'' 616/2'#87;5<'45'.4''A1@45/'18/2' .4''</1.#6245/<'@0'72</2'78'$1?/' Q, B*-),? # ;OE'58 C*;O'B;?'1,*+B' ;;' - #)*;9*O+?+5 +B,' +B-50,' 3' ;?@;));' .129/''! 78'215A/#1''; 472'872' ./'.15<'78' 55/'78' 2/1=5/#4' 5>1</'' 2/1=5/#' 75A9;</''1' '/A2/' 2/1 0'4.' /2515<7' 78' 21=75# 1224/''./';A./''* 78' 2/1=5/# /5<''15'12?0' 45 7' 190# - 72?1475'78'./' 9/1=;/'1=145''.4?# - /57;5A/'' ./';C/'78' 72C'1''15'4?67'72# .129/''%#78'215A/#';/''872'./' .15<'78'W;//5' 94K1@/.#@;'2/F 8;'/<#N , 4''@27./2'& 5D7;' 62767'/<# Q ./''"45=&''612'45' .4''188142# 3 ./';C/'78' 9/5F {75'62767'/<# Q 2/1 0'78' 974'' A75842?/<'@0'.129/'# ./' ?1''1A2/'78' 12.797?/:#4' 5<4=51 4784'78'./'W;//5'78' 5=915<# 3# , 4''842''A.49<'=5-5' ,

"%

V . /' 10' 78' . /' 729<#& 44' -,'#
-Q' 5<'78' 7>/'872' 7>/#& -
7535=' @0'# 72<#' .4'' 7667'4475' 7'
7@/2' 129/0#'44' ' 4'' '/2F
>4A/'' L' " 45= ' 49941?#' ' 4''
';@'/J;/5'.757;2'#' # ' 4''
'1 /'616/2#' 129/0&'76454 75'
78'.4?#
7545=' @0'#' 42' .7?1'#'1' ./'4/=/'
78' 7;/5#'44'
7545=' @0' 81?490#'57 4A/'78' ./#'44'

500'+B,' 0E);?B' ?C7'*+' >0D;-D'
:,' #
75764 7'#' ./' 2//C'@4'.76#'1' 19479'
799/=/#'4' 3
75>/5 ;19' 82412'#' 724=45' 78' ./#'4'
B ' ./42'./1<'J;12/2''45' 75F
<75#' ./42'J;122/9'' :4.' ./'
@'/2>15 '#' ' /9/<'@0' ./'
G ;99'78' 5475#' '
75>7A1 475#' </A4'475' 78#'1'' 7' ./'
?12241=/#'78' /520' ! '15<' 1F
.1245/#'4' Q'
76/#' 42' 19/2#'4' '
76/#' 42'$7.5#'?;2</2'78'.4''75#'44'

72'0#' 2'#' ./'1A 2/''#'15<'./2'A.1F
21A /2'78' 799' 7?975#'4' ,3'
7'4$47#' 1 ./2#'./'$1A7@4/'1=/5 #'44'
' ;5'' 1:10':4.' ?75/0'/5F
2;' /<'7' .4?#' # Q' B ;667'/<'
G7' .1>/'=75/' 7$ 5=915<'72' 79F
915<#'
['5+?@5)1'" 45='58 G'44' Q'
5++-,))' 42' '?,0+'+5'85-=;1'+B,' ,M
0,+;*0' *9=*??*15-' +B,' 5=94'.'
5>-+'44' 3#
7>/5' =2</5' ./1 2/'45' ./'2/4=5'
78'W;//5' 55/#'44' Q'
7>7'#' 215A4'A7'</'97''#'1AA7?6154/'
B*2-)4' 4' +5' 5)5EO*' ;' $"'
U>,,0' *+B*-;0,.?'),++,-?' +5' $'
[
7:'/'' 1' 9/#' 16 145'78'44' '
21==' #' 2#'D;52#'44' '
215@;25/#'./$1A7@4/'1=/5#'44' 3'
215?/2#' .7?1'#'.4'' >4/:'1'' 7'
./" 45=&'' ?12241=/':4.' 1./F
245/#'#4' - ' 4'' /1290' 948/#' 3,'
4'' >4/:'' 2/'6/A45=' ./'?12241=/'
78' /520' [! '15<' 1./245/#'4
3Q'[4'' 45 /2>4/:':4.' ./" 45=#'
[3Q' /5' 7' 797=51' 7'62/''' ./'
76/'87 2'D;'4A/#' 3 #' ?1K/?/5'
78' ./' 76/'1'@4'':4'15<'';@9/0#
3 -*6,)?+B-5>EB' -*04,'*01'
,-9*07' 45)),4+;0E' C;0;50? 58'
8*95>?' >0;6,-?;+;,?' 3 *1,'
-4B=;?B5C' 58' *0+,-=>-7' ,

4''6 12'45' ./'27019'<4>72A/#' Q'
/'' ./'7645475'78' 75>7A1 475#'
Q' 2757;5A/'' ./'" 45=&'' ?12F
241=/':4.' 1 .1245/'5;99'15<'>74<#'G
Q' 4''81/#' '
21>/5#' 72<#'4' #' ;2./2'#'
./'';4'78'./'/OBW;//5'78' 7./F
?41#' 5' 190#'44' '
2/>15#'@1 9/'78#'4' 33'
2/:/#' 72<'78' /5/#'44' -' 4''
<1;=./2'?1224/<' 7' ./' 129'78'
15<:4A.#' -
24997 5#' ;C/'78#'46' ./'1 /?6/<'45F
>1'475'78' A7 915<#'44' '
27?:/99#' .7?1'#' 129'78' ''/0)'
.4''/1290'948/#'4' ' 4''1<>4A/'7'
./" 45=#' ' 4''6 12'45' ./'
627A//<05='' 872'<4>72A/#' Q' 6F
6/19'78' ./' @'/2>15' 2412'' 7'
.4?#' ;?975'' /7' 15<'
9'7:'@/872/'' ./' 7;5A49#' '
+ ' 7:&'' 15':/2#' ;662/''/''
./'72</2'78' ./' 215A4'A15''
.27;=.7;' D4/' C45=<7?#' -'
/5<'' 1'?/''/5=/2'7' "4?@79 75#'
' 4''72</2'' 7' 42' <:12<'
/<45=84/9<#'
27?:/99#' 94>/2#'.4'' J;122/9':4.'1'
'A.779?1'/2'78' ;5 45=<75#'4' 3#'
14'/<'7'./'A7?? 4''475'78'
./' 6/1A/#' 22/'/<' 15<'
@27;=.' @/872/' ./' 7;5A49#' Q'
2' /12<&'' /'4?750'1=14S4''.4?#
Q' <;? C5@,-'*?' -5+,4+5-'*+'
B59,'*01'*=-5*1' ;? 1,*+B'
,;I>-,'58' -?' -59@,,)).?
C*4D*E,?;0' B*9,?+-,,+'
-59@,,))' ;-');6,-'58' ;04B;0E<
=-5D,';' 3' ;? ?,*+58' ;04B<
;0E=-5D,'?5)1'+5' ;-' 710,7' 50M
+*E>'
27?:/99#' 4A.12<#N#' ' 4''75'
>/2'1475':4.' 42' <:12<' 75'
G1=;'44'
27?:/99#' /520' 49941?'' &' N'-#
27?:/99#' 42' 94><24 49941?'' &'
44'-' # &
27?[/99' 81?490#'k45C45=' A75<4475'
78' ./#'44'-' /99'# 45A.45=@27C/'78'
42' 0<5/0' 75 1=.#'
27?:/99#' 1<0' / 0#'44'--#'-3#'3'
27:5'15<' 5A.72#'45' ./' 215<#'
./' 5A4/5' 75A/2'&1'./#'44' '
;96/66/2#' 7975/9#'.4''J;122/9';4.'
./' ;C/'78' />75'.42/#'44' ' G
;?@/2915<#' ;C/'78#''75'78' 772=/B
#'4' '
8 ;2:45# 2#'.4''/?75:75'./''/A75<'
?12241=/:8' /520'! #'4' '
;'#'$1AC#'6794A/'78#'44'

" "

A/6 72 </ 91 /?@24991 '/5 @0 /2515<7 7A710 /520 ! 4 - 4'' 8149;2/ 3 /5 .7?/ 3

h2' '75 78$7.5 2/</24AC ;C/78 10750 ';/ 872 ./.15<78W;//5 94K1@/ . 4

42 $7.5 .4'' 277?'' 45 157>/2 J;12/ 44 194>10 72<1<>15A/'' 7+1<24<44 3Q 4''612 45 ./?4'A12241=/ 45 6145 3 12<45/2 /6./5 4'.76 78 45F A./' /2 .4'' 81 /4 12/2 2</2 78 ./4 3 12 .2 /' ;C/78 />75'.42/&'' <045=48 7 44 3 1'A705/ ./15 4J;120 .4'' 616/2'' </' 270/<'@0 5/ 12J;4''78 7ACF 45=.1?44 3 1'61245 4 c./ 19415 '45=/2 44 QQ 4''76/21'78'V 1?9/ #& Q, 1:'':724. 9/0 15</2 4 75'A2/1/<' 1275 44 /5/21948/ 7724'. 6191A/ 78 4

/72=/'78 /5?12C 245A/</1 .'78 .4'' '75' ./ ;C/78 97;A/'/2 44 4'' 9/ /2 7 ./ 129 78 15A./'/2 75 ./'';@0/A Q /72=/ 78 5=915<./1<' ./ ';@'A246 475 7 ./ 19415 76/21 44 Q /4A/'/2 7;'/ 4

/72=/ 9/A 72 78 157>/2 ./ 12/2''/5 8!7?' !4994 1?' 7 44 4'' 9/ /2 7 ./B 129 78 15A./'/2 3 + /72=/ /212< 72<4 - /212< 72<4 18/2;12<'' 129 78 1AA9/'84/9<4

G /2?145/ 42 $7.5 ?1224/'' ./ <4F >72A/< ;A./'' 78 72879C 44 3 /2?145'' H45 /994=/5A/2'' I 78 ./ 5=94'. A7;2 1 44 97 '' .1 A94/<1 ./A7;2 78 8 55/2 948/ 78 ./ 5=94'. A7;2 1 4 9, Q3 ./42 1 /?6/<45F >1'475 78 A7 915< #X -' /' 12=18/ >75 51;219<1;=./2 78 .129/'' ! 4 , .5 1C/5 @0 ./ 2/5A. 44 -3 .7' 78 ./<2;?? /2 45 2 7?B 6/''78& .7;'/ 44 9/5A7/ ?1''1A2/ 78 44 97;A/'/2 ;?6.2/> ;C/78 4

97;A/'/2 ;C/'78L'75 78 .129/'' M 44 5</1>7;2''?1</' 7A75>/2 .4?7 ./'A.;2A. 78 7?/ 4''</1. 97;A/'/2 ;C/ 78 L'Ad 78 ./ 245A/''' 55/M .4''</1. 44 ,Q

97;A/'/2 ;C/ 78 @27 ./2 78 /72=/ 4 71</ 7@/2 ! 4A/BA.15A/9972'78 ./ 54>/2'4 0'78 1?@24<=/ 4 Q 4''''/>/24 0 Q 515)CB;O' 5-1' B,)C?+5 1,8,*+\ 129/0 44 3 7<796.45 42 49941?/64'7</' 75 ./'948/'78 44 , 4'': 499 Q 75<74;12 ./' 6154'.'1?@1''1<72 .4''15'':/2 7'$1?/'' 4 77<?15 12<99 H' A;?' 77<?15 I' .4''A12//2 44 - 72<75 1<0' 1.1245/ ?1224/<' 7' 4A.12<;C/'78 72C 4 Q 72<75 ;C/' 78 122/'/<44 79<'' <45@;2=.' 1'9/'872'' 45=' $1?/'' 8 72<75 42 7@/2 A2/1/<'./'842'' 1275/' 78 7>1 A7 41 44 7:215 1275'L 72<' ;'M 44 G 7:20 72<.4''<1;=./2'15<'=215<F <1;=./2 4 218 75 4K270' '/A75<' ;C/'78 44 3 C/A.'78'.4''948/ - 4'' ?7./2 3 72<' 12>/0&''945/''75 3 21??75 1@24/9 </' 4'.76 78 12@/'' '/5 75 15'/?@1''0'827?' 215{74'' 7 /520 ! 4 2151<1'1C/5'827?'./' 772'' 4 ,*>+;,?78 3 -*01;?50' 5-1';' 3 -*01950+' *-1;0*)',?,O+5 59,' @0' -*0s5;?'' ;' , -*06;)),' 58 5+B,-;1E,' 5-1' B;? 1,*+B';;' 3 -*6,);O,?' *)) +B,' 0E);?B' 5-1,-,1' 5>+58'=7 +B,' C*0;?B' *9=*??*15-' 4 - 2/1' 1220 ./4 2//5:4A.875<5/''' 78 /520 ! 872 4 - 191A/'78 /520 ! 1 - 3 7;'/''78 ./ 215F A4'A15''1 3 , 12241=/ 78 /520 ! 15<' ./ 245A/''' 1.1245/'1 Q 2/==.4''214727;'' A722/'675</5A/' :4.' 215A/ 44 /5 /5A/<' 7' </1 . Q 4'' ;48/' @;25/<' 45' ./.15< ;'' ;@''/J;/5 90' 1997:/<' 1' 6/5 B475' @0' 2' 129/0

s 2/==&'s /01?451 475s @0s ./s
72<'# # 3
-46;))' 50' 51;0E+50' 9*--;,1' +5'
);0-),? 85>-+B' *-)'58' *04B,?+,-'
..s k
2'/0# 110s 1 .1245/# ?1224/<' 7s ./s
129s 78s /2 872<#4's s 4>72A/<'
@0s 72<2/278s ./'W;//5# s
2/0'78s 49 75# 72<#.4''A1257'4 4/'#
4s
2/0'78s /2C/# 72<'/s 1275#'44s, s B 12A7;2# 72<' .15A/9972#'44s30s
C/A.s 78s .4''A12//2#s, s 4''
'/A2/s.4' 720s 78s ./s 0'/s 7;'/'
+97 #s
24884 5#' 72<#1C/5s 624'75/2s@0s q42s
s 05=s 44s # s 75/0'45s
.4'' 67''/''475# Q s /5s 7s ./s
7:/2# Q s 4''</1 .s./2/#s 3-s
24?19<4#./s 1>194/2/s 4A7945 7#./s
19415s'45=/2#44s Q s + s 4A7B'
9454
-;9,?s 5)50,)' ;));*9 '+B,'A*45=;+,s
C,0?;50,-s ;,' ;?s 250?'
;?1,?;EO'+5' *??*??;0*+,' ;));*9
#s..s Q#
24?/'#;' / /2#./'$1A7@4/#45s 124'#
44s
245<19#2A,@4'.76'78s 72C#2/A7?F
?/5</<'@0s 12C/2#4s Q s
27'>/572# 1<0#./'$1A7@4/'1=/5#
44s Q
;A9</2'#s ;C/s 78#:77/''s 55/s 78s
2/1=5/#4s s
;567:</2'697#4s s
;'1>;''s 24A'75#'75's78s 24A's%!#
4s -
:055#s ,))'s B,-'s '75s +B,'s >D,'s 78s
s 9@15'#44s #

s ,--'s B;?),++,-'+5'
5-1' *04B,?+,-'s;' ,-'
*D)>7+'657*E,?58';'s --'s
*);8*P' 50+*E>'s *-)'58';B;?),++,-'
+5' 5-1' 50+*E>';;'s
*);8*P's B*-),? 50+*E>'s *-)'58's
4s)';;'s Q s ;?8-;,01?B;C'85-'s
,@+50' -Q s ;?),++,-'+5' 5-1'
*04B,?+,-'s
1?49 75#s ;C/s 78#'4=5''s 1s A7A.s
1<<2/''s 7'$1?/''s 44s 3s 4''s
627?4'/'s 78s'';6672s 7s $1?/''s s
Q s C/A.'s 78s.4''s A12//2#s Q s
75/0''/5s827?'s s /2?145''s 7s
.4?#Q s 7 4A/'s 78s.4''s A12//2#s
,#s 2/1/<'s ;C/'78s 215F
<75#s Q s 4''81 1?<;/9':4.s 72<'
7.;;#s #s Q s + s 215<75
V 1?9/#& 1'61245&'' 76/21' 78#44's
Q,' k

15</9#.4''2/A/6 475s 45s 75<75#44's
#Q s 5=1=/<'1''A7?67'/2'
7s./s 19415s 6/21#s Q s 4''
76/21''s 78s V 4519<7'& 15<'s V 2B'
?4<1#& Q-#s 03
15?72/#s 42's $#45s./s 7;'/'78s
7??75'#44s #s
15''s 1'4?42#'75'78s'./s 9/A72s 1F
91 45/#';/''872'./s.15<'78s W;//5s
94K1@/.#4s -s /8;'/<#s 3s
12A7;2#72<'.15A/9972#'44's30s
129/0#7@/2'L18/2:12<''s 129s 78s
O872<W#/9/A/<'s 6/1C/2's 78s./s
7:'/'78s 7??75'#44s 3s 4''s
6;@94A's '/2>4A/'#s 30s 79<''s./s
G788IA/''s 78s /A2/120s 78s 1's 15<s
6/1C/2'78s./s 7??75''s 1's 75/s
4?/#s -s 4''9/ /2'78s45'2;AF
475''s B7B$ 72<s 15A./'/2#s
;'6/A/<'78'A7?694A4 0'45s 2/==&''s
2/1'75#s ,,s 4'?4''/<'s @0s./s
7W;//5#s ,Q* Q #s Q s 120s
'A./?/''s 1'24@;'/<'s 7s .4?#s Q s
4''s 76675/5s 72<'s 7545='@0#
s 129/0&''s 7645475s 78s .4?#
s 4''<4'?4''19#s.7:'s@27;=.s
1@7;#3 s 4''s 624>1/'1;<4/5A/''s
:4.'s W;//5's 55/#s 3
1221A.#s 7:5#44s ,#s ,s 27F
/''s1=145's./':499'78s.129/''s
78s 6145#s -
12#s 2'#?'14<'78s.757;2s 7'W;//5s
55/#44s 33
1>2/s';22/5</2/<'@0s./s 129s 78s
12:4AC#4s ,
1:C/#7975/9#./s $1A7@4/'1=/5#
45s A7 915<#44s 3
10?12C/#s !15@2;=.&''s./1 2/'45B'
./'44s QQs./'76/21s/'1@94'./<'
1s./#s Q
10:12<#s $7.5#./s''/0 75's 78s s
/6./5&'#s 79/?15s 2//#+'s 4s
-
/524/1s 1241#'W;//5#./2s ?12F
241=/#44s #s 72751 475s 78s./s
"45=#s s /2'612'45'V ;/s ./6B2s
./2<&'s 7?691 45 #& s s 8;=4 4>/s
45s 215A/#s /A/4>/'s./'/049/<'
!19/2s 75 1=;'s:4.s/5 .;'41'?#s
s 1C/''.4?s./2'19?75/2#s
91A/''$4/2'75#./s ;C/'78s 97;F
A/'/2#s ;5</2s .4''s A.12=/#s
!4'4''s./2''75#.129/''s #45s 5=F
915<#s
/524/1#s <1;=./2s 78s E .129/''s #s
?1224/<'7's./s ;C/'78s 29/15'#44's
--' /2's>4'4'7' ./2s @27 ./2#s
.129/''s #s -,' s /2s </1 .'s@0s
674'75

38 . /5 W;//5# , t 2767'19'' 78 .129/'' ! # - /520 . /@/'' 824/5<78 . /790 //# - 1AC 78 7?/@0 . /?6/24194'' # - /520 ''/0<'' 79'/0 7 A75A9;</5 15 199415A/:4 . 215A/1=145' . /?6/272# - 199'' 45 97>/:4 . 55/ 79A05# - 7?? 4''475 =215 /<@0 . /76/ 7 20 . />1F 94<4 0 78 . /" 45=&?12241=/# -- /520&' A75'4</21 475 872 . /'8//9F 45='78 . 4'' :48/# - 199'' 1 ?// 45=499 75<75 7 A75'4</2 . 4'' 67'4 475# 3 # 3 79'/0 15< 1?6/==47&'' A7;2# 3 66/19 78 . /'W;//5 7 . / 7;2'78 7?/# 3 1619@24/8<57;5A45=' '64F 24 ;19 A/5'; /" 1=145' . /" 45=# 3 1 .1245/&'' ';==/' 475'' 872 /OA7??;54A1 45= . /" 45=#15<# 91045=.4''2/19?';5</2'15 45 /2<4A # 3- /520 /5<'' 872 215?/2# 3Q 215?/2&'1<>4A/# 3Q /5<'' 215?/2' 7 797=51 7'62/'' . /#& 76/'872'D;'4A/# 3 ./ 76/&'# 627.4@4 720@24/8# 3 ./" 45=' </ /2?45/'' 7 691A/ .4?'/98 1 ./ ./1<' 78 15 5=94' 51 47519 A.;2A.# , 7/'':4 . ./'W;//5 7 45<'72# , 12'' 872 />/2 827?' ./2# 4'' /OA;'1 72 125/''/5''7;'78 190# , 7/'' 7 1914'' 7 ?// 215{74'' # , 2/1/'' 55/ 79<05 12F A.475/'''78 /?@27C/# , t ./ 76/&'8;2 ./2 </A9121 475 1=145' ./ ?12241=/:4 . 55/ 79/05# Q ./" 45='?1224/'' 55/# Q 4'' ?12241=/:4 . 1 .1245/'627F 57;5A/<'5;9915<'>74<# Q 727F 51 475'78'W;//5 55/# Q 4'F ''/5'475'' 1?75='' ./ @'/2>15 2412''75'./'J;/'475# Q 1 ./2 /7&''/2?75'@/872/' ./'" 45=# 2 ;2:45 15<' 1 ./2 9'7:&' 15':/2'# # /520 ';6F 62/''/'' ./'72</2'78 ./'215A4'F A15'' .27;=.7; ./'C45=<7?# t -' 995/''''78 ./'<4>72A/<'W;//5# t, /2'91'9/ /2'7 /520# Q /2' </1 . .24' /545='78 .4''<1;=. /2' 94K1@/ .# 5 /2145/<'@0 +B,'?,-J,*O+?<*+<)*@'*+)7' 5>?,' 30 /520# 245A/#''75'78$1?/'' #A2/1/<' 245A/'78' 19/'#4' 4'' ?494F 120'/O/2A4'/'=27;5<'45' /4A/'/2' 4/9<'# ,-5O'$7.5# 2/1';2A'2'78 ./' .1?F @/2' 7' /520' ! # Q 4' @77C'78 ./'" 45=&''/06/5<4;2/'45' ./' 24 4' .;'/;?# /2872<' 1'9/#'W;//5' 1 .1245/'1 # 4 /2872<# <:12<' /0?7;2' 129'78# 1 ./'A.24'/545='78 ./' 245A/'''' 94K1@/ .#4' 1224/'' 1<0' 1 .1245/' 2/0# 5=/2'15<' >/5=/15A/'78 ./'W;//5 ./2/1 # 4>72A/<' 15<'4?624'75/<# c 4''7 ./2':7':4>/'# /2>/0# 55/' 75 1=;1<0#4 , >2/?75<&''1AA7;5'78'./2# , ./'6910'247 # ,3 /2>/># 42' 154/9# 15<'.4'':48/#4 ,-#V ,3 /2>/0#$7.5 72<#.4''945/'' 75' ./''/A75<' ;C/'78' 218 75# 44' 3# B B 4AC'# 42' 16 4'#4' 4AC'# 2#2/A7??/5</<' 7' 72<' 15A./'/2#44' # 499# ;'1551.# ?1224/<' 7' <:12<' 75 1=;'45' "45=' $1?/'&'' @/<F 277?#4' # //' 75 1=;# ;'1551. 45A.45@727;=.# 1<0# 1 1AC/<'@0' '?199B670#44' 45A.45=@27C/# ./''/1'78' 42' 94>/2' 27?:/99# 4' 3' 79<' 7' 42' 0<5/0' 75 1=;#)' 44' /'2;A475'78' ./' 79<' ?15'475# ./'?1=5484A/5'277?'1 # 45A.45=@27C/# 72<#75'.4''21>/9'# 44' Q# 1224/'' 94K1@/ . 76.1?# Q 4''</1 .# 4664'9/0# 42' $7.5# 7>/2572' 78' 7>/2' 1'9/#44' 7@/0# 2# .4'' :499# 44' 3 4'' </@' 7' 72<' 75 1=;# 3 # Q # 7=;/#98#1# @1 9/'78# 44' - 79@/45# /520'! ./''61 275'78# 4' 4''64A;2/'' 1'"4?@79 75' 1'9/# 7991 5<# 42' .7?1'# ?1224/'' ./' 142' 14<'78'"/5# 4' 3' 7991 5<# /520' 4A.# 842'' 129' 78# .4''6/5'475# 4' 4''</1 .# 4'' :48/&'' 9/ /2' 7' 42' "1 .154/9' 4A.# 7991 5<' 15<' 12:4AC# 7@/2' 4A.# 129' 78' <?4219' 78' ./' 7?F ?75;/19 .# ?1224/'' 55/' 975B' 1=44# 4' + 12:4AC' 79?/'# 1072# ./'1''1''45## 1' ./' A7;2'78' /2?145'# 44' 76/# $7.5# .4'' 9/ /2' 1@7; 19/2' 75 1=;# 44' 3 76/# 42' 4401?# =7>/2572'78' <45F @;2=.' 1'9/# 44' - c

76/# 2# ./' $1A7@4 /#1 ' ' /2F
?145'#44' -
7 .1?#' 42' $7.5#$ 612941?/5 12415'
=7>/2572'78' ;99#4' '
7:#' $1AC#' 15<' ./' H'A7?? 4''475'
1=145''6021 /'#I'44'-#'-'
7:12<#' 1<0' 7;=91'#'?1224/<' 7'
./' 129'78' O!4A/'' /2#'4'-Q'
7:12<#' <:12<#'/15' 7' ./' 7:/2#'
44'
7:12<' 215A/'#'<1;=. /2'78' 72<'
7:12<'78' 8845=.1?#'?1224/<' 7'
./' 129'78' /2872<#'4' '
7:12<#' 215A/'#'<1;=. /2'78' 72<'
7:12<'78' 45<75#'4')'44' ,-'
/2' ./2//';''@15<'#' '/''/2'
A16'1'$1?/'' #' '/2'</1 .#'

7:12<#' 72<' 2/</24AC#'A75>/2/<'
7' 27 /' 15 4'?#'44' 3 #' 33'
7:12<'78' 45<75#' 72<#'44' ,-'
;5 45=<75#' /520' 1''45=''129'78#
4' ' 27D/A'7'214'/'.4?'7'./'
.275/#' ' 94K1@/.&'57 475'78'
51?45=' .4?'./2''; AA/''72#' '
4''2/91 475'.46' 7' 94K1@/.#' '
4''4'/2'2/8;'/''./2'.15<'7'./'
K12'78' ;'A7>0#'
;5 45=<75'.42/#'1@@/0'915<''45#'45'
872?/2'4?/'#'44' '
;''/0#' 72<#'<''81/#'4' '
;''0#' 7975/9#'./'$1A7@4/#44' '
0</' 12C#'<;/9'@/ :/15' ./' ;C/'
78' 1?49 75'15<&' 72<' 7.;5'45#
44' # Q
05<872<#' 129'78#' ?1224/''' 1<0'
7?5/0#'44' 3

#'72'45 /994=/5A/2'#'45'
./'610'78' 49941?' &''=7>/25F
?/5#'44' 3,#' 3' [$[.7'/'78' ./'
5=94'.'A7;2'1' ' /2?145'#' '
99;'21 475'78'./'A7''78'./''60'
[/?#'15<' ./'A1;475'2/J;42/<#'
' 1'A194 0'78' '7?/'78' ./'
5=94'.''64/''45'215A/#' 19'/'
1=/5''45'./'6191A/'78' .4/.199#'
224>19'78'=2/1'5;?@/2''78'
45872?/2''45' 215A/#'
55C//6/2''45' 5=915<'45' ./' 3.'
A/5 ;20#'4'
557A/5' !994' 62767'/'' 6/1A/' @/+'
:/15' 5=915<' 15<' 215A/#'4' '
667'/<'@0' /2515<7'78' 21=75#'

5J;4'4475#' 87;5<1475' 78' ./#' 45'
6145#'4' -#' Q
5 /994=/5A/2'' + ' 5872?/2'
2@0#' 1<0#'44'Q #'Q
42/915<#' 2/5A.'15<' 6154'.'627D/A '

$ ' +
872' ./'A75J;/'' 78#'4' #' #'
2/5A.'45 24=;/'' 2/=12<45=#' '
728/4/<'/'1/''45#'45' ./'2/4=5'78'
4994 1?' #'44' -#' -' /';?6F
475' 78' =215 '' @0' 9+' 7;'/' 78'
7?? 75'#'OHN' 24'.' 1A7@4/''1 '
' /2?145'#'
'1@/9#' ./' 1 .794A#'W;//5'78' 1'49/'
15<' 21=75#'672214'78#'4' #' /2'
97>/'872' ./' 9.1?@21#' 3' /2'
/'1@94'.?/5'78' 215A4'A15'' ;/2/#'
3' /A/4>/'' 1'9/ /2'827?' ./'
;C/'78' 72C#' ' /2'15';/2#'
#' /2'1''/2475'' 2/'6/A 45=' ./2'
:4<7:/<' <1;=. /2:'' A75<4475#'33'
/2'9/ /2'78'45'2;A475'' 7' ./'
;J;/' </' '21<1#'3,#,-' 149;2/'
78' ./' ;J;/&'' ?4'8475#' , ' /2'
24AC'' 15<'</>4A/'#', ' /2' 24AC'
6910/<';675' /520'! #'Q ' 5F
<;A/'' ./' 76/'7''/5<'./2'.4''@24/8#'
Q-' /5<''1'A760'78'4' 7' 75<75#'
Q-' /2'</1 .#'QQ
'1@/9#' ./' 5815 1#'?1224/<' 7' 75'
975K7'78' 72;=19#'4' ' /2'
@42.691A/#'
'1@/9#' ./' 5815 1#'78' 72;=19#'?12F
24/<' 7' .129/'' ! #'4'
190'45>1</<'@0'./' 2/5A.#'4' -'
75<4475'78'./' 7?1=51'15<'78'
/5 219' 190';5</2' ./' 72=41'#'
3-
>15'!1''497>4/.#' K12'78' ;'A7>0#'
788/2'' .4'' .15<' 7' ./' 129' 78'
;5 45=<75&'' 4' /2#'4'

'45 24=;/'#'44' # '$1B
60' A7@4/''1'./' 7=' 1>/25#'45' 2;20'
15/#' ' $1A7@4/' 214 72'#'
' 8' 97'' 15<' 697 /2'#' 3'
24'.'$1A7@4/''1' ' /2?145'' '
./42'D7O'1'./'</1.'78'./' ;C/'
78' 97;A/'/2#' ,' $1A7@4/'697 F
/2'' 45' 75<75#' Q ' ./42'/8872''
45' A7 915<'45', Q#' 3' 7975/9'
1:C/#' 3
$1?/'' #'7;A20'78' ./' 7??75'' 1'
.4''6278;'475'15<'81>7;24 4'?'78'.4''
A7 4'.' 87997:/2'#'4' ' 19/'78'
612<75'' 45'.4'' 2/4=5#' ' 4''
'75' /520#' 245A/'78' 19/''#' '
/690'78' 75<7?12#' ' 4''45F
>/5 475'78'./' 4 9/'78'@1275/#' ' c
$154/'' #' 199/2&''1;<1A47;'' 15':/2'
7#'4' 3' 4'' 624>1/'/'1/''=4>/5'
7'./' 7;5/''' 78' 2C5/0#'44'-'
/<19'' 2;AC' 7'A7??/?721/#'15'
/>/5'45'.4'''75&''948/#'3#'3' 4''
779#'./' 1D9'78' /9872#', ' 4'F
24@;/'' 80=/'';?'' 1?75=' 5//<0

5=915<' 15<' 215A/#' ,' 7;4'' <18/1/<' @0' /520' ! #' 1224/'' 120' ;<72#' 3' 4'' </1 .#' 3' # 7;4'' % ! $'/?@1''0' 827?' 49941?' 7#44' ' ./' 2/5A.' "45=&'' 2/A/6 475' 78'B./' 1?@1''1<72#' ./' 129'78' 15A./'/2#' 4''75#' ./' H 215<' 1;6.45#!' -#' -' /1.' 78' ./' "45=&'' @27./2#' ./' ;C/' 78' 29/15'#' - 4''97>/ 72' 4'' @27./28&'' >48/#' -,' /5<'' 9/2' 7'6;2A.1'/' ./'199415A/'78'./2' @27./2' .129/'' 78' 5=915<#' -,' 4''J;122/9';4.'4''@27./2#' -,' 1C/'' 6;@94A' ./''/A2/' 2/1 0'2/'6/A45=' ./' 612 4 475' 78' 6145#' 30' /1.' 78'.4'' =;/'#' $1?/'' #' ' $1?/'' '7:5/<' @0' 7;4'#' ' ./' 5=94'.' 1?@1''1<72' 2/A199/<#' ' 7;4'' 1' 12':4.' 5=915<#' -' /5<'' 14<' 7' ./' 2/ /5</2#'44' ' 7;4'' % ! ' 15<' ;2@/K4/;O#'44' -

7;4''. 49466/#'"45='78'./' 2/5A.#' .4'' </'A/5' 827?' 7;4'' % ! #'44' -Q

7;4'/'78' 1>70#'?7./2'78' 215{74' #'4' -

7>1#' 21K/2#' 72<#'.4'' 2/1A./2O#' 44' -

;<97;' 1'9/#'</1.'78' 245A/' 2F .;2'1#'4'-,

;'55#' 1</?74'/99/#'?1224/<' 7'./' ;C/'78' /2;4AC#'44' 3'

;./2#' 12 45#'.4''545/ 0884>/'./'/'#' 4'

' ,O,-*)' 4B*-E,?

1=145'#'44' Q

1AA9/'84/9<#' /212<''/A75<' 129'78#' 15<'.4'' :48/#'44' Q' 4'' ?4''475' 7'./'A7;2'78' 157>/2#' ' 4'' 81?7;'' '4':4.' ;/' 4 75'#' ' 7 4A/'78'.4?#' #

1AA9/'84/9<#'./' 7;5/''' 78#' 15<' ./2'A12//2#'44' Q#'

1AA277?#'@1 9/'78#'4' 3'

1A.1<7#' 7=/2#''/A2/ 120' 7'./' /?@1''0' '/5' 7' /2<4515<' 78' 21=75#'4'

1A910#'./' A7A.' $1A7@4/'1=/5#' 44' -

1=21.#' 16 145#'./' $1A7@4/' 1=/5'78' ;C/' 1?49 75#'44' Q

14 915<#' 42' .129/'#'./' $1A7@4/#' 44'

191=1#' 42' 97;</'9/0' .7>/98'' >4AF 720'789#'44' -Q

15#''9/'78#' 75 1A;/' 129'78' 194'F @;20&#'A27;5/<'"45='78#'4' 3' 79<' @0'.4''' 75' 7' 49941?' A276/#' 3 1;1#'./' ?;'4A415' 72<' 15F A./'/28&'' 9/'/2' 7' 1<0' 129F @727;=.' 2/'6/A45=' .4?#'44' ' 1<0' 129@727;=.&'' 15':/2#' ' !15@2;=.&'' 76454754787.4?#'--

15A./'/2#' 55/' 4A.' 7;5/''' 78#' 4'

15A./'/2#' ,129/'' 75 1=;'87;2.' 129'15<'842'' ;C/'78#'44' -' ;?F ?75/<' 7' 12941?/5' 45' 30-#' 3' 667'/'' $1?/'' #' 3' 4''/2F >4A/'' 7'"45=' 49941?' 15<' W;/+' 55/#' 3#' ' 14'/<' 7'1' ;C/F <7?'@0' /72=/' #' ' ;2672'78' .88/'/?@1''0' 7'!/54A/'45' 3' #' 4'' 1224>19' ./2/''15<'.4''>4/:'78' !/5/415' ?1 /2'' =/5/21990#' Q' /2/?750'78'.4'' 2/A/6 475' @0' ./' 2/6;@94A#' # ' 4''9/ /2'' 7' ./' ;C/' 78' .2/:'@;20#' Q' ' 8' 4'' 1AA7;5' 78' ./' :499' 78' 42' 49941?' <<796.45#' Q' /5'@0' "45=' 49941?' '75' 15'/?@1''0' 7' 7;4''% ! #' ' ./'"45='' 45'2;A475'' 7' .4?#' ' / /2'' 827?' 1./:' 2472#'- #Q' 5<' 827?' 42'$7.5'!15@2;=.#'- ' 4'' A.121A/2#'3' /1>/'' 215A/#'33' 4''?/?7249' 7' ./'"45=#'33' 4'' 9/ /2' 7' 72<' 19481O' 75' ./'' 1/' 78' ./' 6794 4A19' .724K75#' Q' 4'' ?12241=/#' 4''/?@1''0' 7' ./' A7;2' 78' 7;4''% 9R+#' ' 4'' 7844A419' 2/A/6 475' @0' ./' 2/5A.' "45=#' 4''</1945='' :4.' 20/290#'./'$1A7@4/'1=/5#' 4''>4=4915A/#' 1''4587551B' 475'78'1'82/'.'</'4=5'1=145'' ./' 948/'78' 49941?' #' Q' 4'' '/A2/ 120' 122/'/<' 75'.4''07;25/O' 7' 5=915<#' ' "45=' 49941?&'' </?15<'78'2/<2/''' 872'./'7;21=/#' ' 72<' 15A./''/28&'' <4884A;9F 4/'';4.''64/'' 15<'45/394=/5A/2'#' -' 4'' A758/2/5A/';4.' ' </' 72AO' 75' ./' 45/2A/6/<' 9/ /2' 827?' 72<' /9872' 7' ./' ;C/' 78' /2.#' 22/12'' <;/' 7' .4?#' #' 3#' -#' -' 42.' 78' .4'' '75' 49941?#' -' 4'' 1;<4/5A/'78' ./' 2/5A.' "45=' 7' 1557;5A/'a./'</1.'78' ./' ;C/' 78' 97;A/''/2#' ' / /2' 75'./

'¢ k

120#' W ; / /5' 78' A7 '#' 1 / ? 6 '' ? 1</' 45' . /2' 81>7 ; 2#' 4' ' /2AO' 198' G : 10'' ' 46 ; 91 /<' 872' . /2' @O' . /' 2/5A . ' 27019' 81 ? 490#' ! ! 198' '45=. 1 ? &'' 9/ /2' 1@7 ; ' 1' @7O' 78' 945/5' 872' . /2#' - 1' . 1 ? #' 2' #' 44 ' 3 ' 1'' /2/ /5/#' ! 4' A7 ; 5 #' 42' . 7 ? 1'' 97 ; 72 . O' A2/1 /<#' 4' - ' 42' $7 . 5' C/ 845= 75' A2/1 /<#' - ' 1'' 45=@ /2<#' 4'' #' 4' Q ' 1 . 479 ; '#' . 4'' V 7 ? ? /5 124/'' 75' 47' A724</' #& 4' Q' 1O4 ? 49415' #' ? 6 / 272' 78' /2 ? 150#' 1' ' ; 4 72#' : . /5' " 45=' 78' . /' 7F ? 15'#' 872' . /' . 15<' 78' 55/' 78' 2/ 1=5/#' 4' ' 1224/'' . /2' @O' 62700#' ' 75A9 ; </'' . /' 2/1 O' 78' 215C872 #' ' 4'' : 48/'@O' 62700#' ? 1224/<'@O' . /' " 45=' 78' 215A/#' ' /2>/'' 1'' 1'' ; @19 /25' ; 5</2' /520' ! ' 45' 215A/#' Q' c 1O : /99' 78' 79' : 45<75#' . /' A7 A . ' $1A7@4 /' 1=/5 #' 44' - ' 2</2/<' @O' ' '((' 7'9/&1>/' 124'#' $'Q' 1O : /99#' 1072#' . /' $1A7@4 /#' 44' Q' 10B<10'#' /520' ! ' . /' A75 24>/2' 78#' 4' 1K1245#' 12<45 19#' 15<' 19 /2' 75F 1=; #' 44' ' 75 21' /<' : 4 . ' 75 1=; #' :" /5K4/#' 120#' . /' @/1 ; 0#' 674F '75/<#' 44' ' 1224/<' 7' 2' 24A/#' /<19#' . /' : 49<' @712#' 44' 3 ' /<4/4#' 9/'' 15<27' </&#' /06/99/<' 827 ? ' 972/5A/#' - #' 3 ' 944'' @1 9/'' 87 ; = . ' @O' . 129/'' ! #' 3 #' 3 , ' /45' 1 /<' 45' 972/5A/#' /<4A4#' 1 . 1245/' </&#' 788/2' . /' . 15<' 78' . /2' '75' . 129/'' % ' 7' W ; / /5' 94K1@/ . #' 4' , ' /2' 45 /2>4/ : ' : 4 . ' 19' 45=. 121#: 3' /2' 627F 67' 19' 78' . /' ; C/' 78' 9/5{75' 1'' 1' . ; '@15<' 872' 94K1@/ . #' Q' /<451' </9' 1? 67#' . /' 5=94' . ' / ? F @1'' O' 1 #' 4' ' . /' 2/1 O' 78#' '4=5/<#' ' O1 ? 451 475' 78' . /' /2 ? '' 78' . /' 2/1 O#' #' - '/8872 #' 129' 78#' C/ A . ' 78' . 4'' A12/ /2#' 44' ' 4'' 9/ /2' #' ' 198' 912<'&'' 2/ ? 12C'' 75' 4' 15<' . 4 ? #' , 4'' 45 /2A/6 /<' 9/ /2#' ' AA7 ; 5' 78' . 4 ? #' ' 154' . /<' 827 ? ' . /' 7 ; 2' 78' ' /2 ? 145'#' -#' 3' =145' 1' ' /2 ? 145'#' Q3' /5' 7' 5=/2'#' Q' 485<7K1#' 12<4519#' . 4'' 8/1'' 45' . 757 ; 2' 78' . /' 51 ? /' 78# 1 . 1245/' 78' 21=75#' 4' ,

4<<9/ 75#' 4' 2/'' '$15/#' 44' . 3' 4<<9/ 75#' 72<#' 1 ' . /' 7 ; 2 ' 78' ' /2 ? 145'#' 44' ' ,#' Q3' 4'' 5/=7F 41 475'' 872' 2/5A . ' 1'' 4' 15A/' 45' 1' 62767'/<' $1A7@4 /' 45>1'06d5' 78' A7 F 915<#' 3' 4'' D/197 ; 'O' 78' 72<' /9872 . ' Q ' 1</' ; C/' 78' 75 ? 7 ; . #' 4915/'/#' . /#' 1 1AC/<' @O' 215A/# 4' 3 499'#' /72=/#' . /' $1A7@4 /' H45 /994F =/5A/2#I' 44' ' 451'#' 7 : 5' 78#' 44' 3' 7 . ; 5#' 94K1@/ . ' </#' ? 1224/<' 7' . /' 129' 78' 194' @ ; 2O#' 3' 7 . ; 5#' 72<#' . 4'' D7 ; 25/O' 7' 157>/2# 44' ' 4'' 81 19' < ; /9' : 4 . ' . /' ; C/' 78' 1? 49 75#' #' Q 79/#' 2 #' . 4'' 4? 624'75 ? /5 ' 45' . /' 5J ; 4'4 475#' 4' - 79/'#' ; C/' </#' 6154' . ' 1 ? @1'' 1<72' 45' ! /54A/#' 44' ' 75/#' 1 . 1245/#' . /' 897 : /2B=429' 78' 7AC . 79 ? #' W ; / /5' 78' : /</5#' 4 ' /2' '75#' ; ' 1> ; '' 24A'75# - ' /2' </1 . #' - ' 75'/4=5/ ; 2' 15<' 75'4/ ; 2#' 4 9/'' 78# 44' -- 75 1A ; /#' 49941 ? ' 1275' </#' 4' 3 ' 4'' : /19 . '15<'67 : /2#' 3 ' /'4'' '' 45='$7 . 5#' 3 ' /624>/<'78'5/129O' 199' . 4'' 67''/''475'#' 3 ' 4'' 915<'' ' ; @'/ J ; /5 9O'2/A7>/2/<'@O' . 4'' . /42'#' 3 75 1A ; /#' 4? 75' </#' 4' . 76' 78' 9O#' ' 3 75 1A ; /#' 42' 4? 75' </#' 4' 33 ' 1224/'' 94K1@/ . ' 7 ; = . 75#' 33 ' . /' 15A/' 72' 78' 199' . /' ? 7</25' @215A . /'' 78' . /' @7 ; '/' 78' 75 1=;#' 4' 33 75 1A ; /#' 94A/' </#' <1 ; = . /2' 78' . 7 ? 1'' 129' 78' 194'@ ; 2O#' ? 1224/<' 7' 4A . 12<' />499/#' : . 7'1'' ; ? /'' . /' 4 9/' 78' 129' 78' 194'@ ; 2O#' 4' 33' 75 1A ; /#' 4? 75' 1275' </#' '; ? F ? 75/<' 7' 12941 ? /5 #' 4' 3 ' 75 1=; '81 ? 490#' . 4' 720' 78' . /#' 4' 3 ' 75 1=;#' 55/#' ? 1224/<' 7' 9/015</2' 76 . 1 ? #' 4' Q 75 1=;#' 557#' ? 1224/<' 7' 7@/2' 129' 78' 7991 5<#' 4' ' 75 1=;#' 55/#' ? 1224/<' 7' $1 ? /'' 7 : 12<#' . 42<' 129' 78' ; 8879C#'44' 3 ' 75 1=;#' 1 . /245/#' ? 1224/<' 7' 2' <: 45#' 44' 3 75 1=;#' . 129/'' L18 /2 : 12<'' 72<' 19481OW#' ? 1224/<' 7' . 4'' A7 ; '45' . /' 7 ; 5 /'' '' 78' 445A . /' /2#' 4' ' C/ A . ' 78' . 4X' 948/#'

Ć 75 1=;# 42 < : 12<#.4''612/5 1=/#
4 33 4''' ;<0'78'./'91:# 3,
4'' .2//': 4>/''15<'A.49<2/5# 3,
/?12C'78'.4''15=20 7>/2/4=5'7'
.4?#'L¤, 4''627?7475'# 3Q '
./'A7;5A49'78' 2//5:4A.#' 3 '
215 ''78' @@/0'91;<''7'.4?# 3 '
/42/''7' /7@90# 3 ' 4''<1.#'
3 4''75' < : 12<# 3 '
75 1=;# < : 12<'L'75'78' 42' < : 12<'
78'./'.2//': 4>/'M#'4' 3 ' 4''75''
' ./' 87;5</2'' 78' ./' .7;'/'' 78'
7;=. 75# 15A./'/2#15<' 15<F
:4A.# #
75 1=;'78' 7;=. 75# < : 12<'842''
72< 4''</1.'45'./' 1>70#'4'
c , 4''<1;=./2'./' 7;5/''78'
45<'10# ,
75 1=;# < : 12<'L'75'78'./''/A75<'
72< 75 1=;'78' 7;=. 75M#'4 ,)
44 4''</1.# , /60'&''
1AA7;5'78'.4?# , 66745/<'
?1'/2'78'./' 72'/''7'W;//5' 1.1F
245/'78' 21=15K7# 4''J;122/9'
:4.' 72<' ./'/284/9<# , 4'F
?4''/<'827?'./'W;//5&'.7;'/.79<#'
, "499/<'45'./'188142'7894' /2=/5#'
Q
75 1=;# < : 12<' L18/2:12<'' ./'
4=.45=' 129'78' 15A./'/2M#'@/F
27./<' 7' ;'1551.' 499#'4''
1224/<' 7'./2'45'"45='$1?/'&''
@/<B277?# # /5<'' 245A/'
.129/''75'@4''27?15 4A'D7;25/0'
45 7' 6145# 7'/''.4''':48/#
/A7?/''!4'A7;5' 15</>499/#
-' 1224/'' 55/' 4A.#'<1;=./2'
78'./' 129'78' 12:4AC# -'
4''A.49<2/5'@0'./2# - /F
/2'827?'.4''.42<':48/'7'.4?#' +'
?6/1A./<'@0' .129/'' # +'
15A./'/2# < : 12<' 75 1=;' 129'
78
75 1=;# < ; 12<'842'' 129'78' 15<F
:4A. + 15<:4A.
975 1=;#E 1<0' 94K1@/.#./2'?12F
241=/':4.' 42'$1?/'' 75 1=;#'44'
3 /2'9/ /2' 7'./2'@27./2#
./' 129'78' 15A./'/2#'44' 3-'
75 1=;# 215A/'#?1224/<'7' /520'
1;5</2'75#'4' /2'827?'
<?4219'./' 129'78'U 12:4AC'7#'

75'1=;# /72=/#'848.''75'78'./'842''
129'78' 15A./'/2#'44',Q'
75 1=;# /5A1=/#'.4''</1.#'44' -'
75 1=;# /520'842'' 129'78' 15F
A./'/2' + 15A./'/2
75 1=;# /520'+ 75 1=;' A7'91''
;C/'7+'4# Q

75 1=;# '1@/991#'./2':7'.;'@15<'#
4 Q
75 1=;# 42'$1?/'# 794A472B /5/F
219'7''W;//5' 55/#.4''9/ /2'' 7'
72<' 15A./'/2#44' #3# Q '
1</' .4/8' 1275'78'./' OA./F
J;/2# 3 ' 4'' :48/# 94K1@/.'
75 1=;# 3
75 1=;#'1<0'$/?4?1#./2'?12241=/'
:4.' 2' 12/2/#44' 3'
75 1=;#$7.5''/A75<' ;C/'78#4
Q 4''A.121A/2# Q ' 4'' :48/'
15<'A.49<2/5# Q # Q
75 1=;# 72<#.4''91:';4':4.'./'
129'78' 1.#44' 33'
75 1=;# 72<' 12<4=15'A2/1/<' ;C/'
78#4' Q
75 1=;# 1<0' ;AO#./2'</1.#44'
-# 3# 3-
75 1=;# 196.'842'' ;C/'78#4' ,-
4''4''/2' 1<0' /2>/0#' ,-' 4''
c'691A/''1' 7;2# ,3' ?@1''1<72'
7'./' 7;2'78'215A/# 3' 4''
A75'>/2'1475':4.'./'<045=' ;A./''
78'29/15'# , /5<'' 1</?74'/99/'
</'W;/27;1499/' 7' 5=915<# ,Q'
/'4=5''.4''67''781?@1''1<72# ,Q'
749''@4''/5/?4/''15<'A1;''/'./'
4?6/1A.?/5'78'./' 129'78' 15@0#
/96''7'910'./'87;5<1475''
78'./'=2/1' />79;475# ,' 44
Q /:12</<'@0' 49941?'15<'
120# # Q 4''A.121A/2#
Q 4''?15'475''1' 7;=.75'
15<'45' 75<75# Q 4'' :4>/''
15<'A.49<2/5# Q 4''=/5/27'40'
7'72<' 2/'75# Q
75 1=;# 4<5/0#.4''?12241=/':4.'
55/ 729/0#44'
75 1=;# 42' 4<5/0#44' /8;''/''
7'1C/'15'71.'7'./' 129'78' ''/0#'
N 1224/'' 1;9451' /60'#
;2A.1'/'' 45A.45=.27C/'827?'./'
27?:/99'# 4'' :7''75'#
75 1=;# ;'1551.#:48/'78./' 4=.F
45=' 129'78' 15A./'/2#4' #
/2'9/ /2'7'.4?#
75 1=;# .7?1'#78' /?45=75#4'
33 4''75' 42' <:12<'78'./'
.2//':4>/'# 33
75 1=;# 19/2'L'75'78' 42' /520#'
18/2:12<''842'' 129'78' 15A./'/2M#'
4 Q 4''@42.'15<'612/51=/#44'
?6970/<'@0'./' ;C/'78' ;AC45=F
.1?# /5'7'215A/# 45<B'
@7;5<'1' 7>/2# 4''61''1=/':4.'
772/#./' /6;0'67'?1'/2#'
/:12<''872'.4''''/2>4A/''# ?F
@12C''X872' 9;'.45=# 1</'
624'75/2'45' 215A/#- 66745/<

$8

75/' 78' ./' 215=/2''78' ./' 872/''
78' 10@24<=/#' -' 4@/21 /<#' 3B'
/5 ' 7' 90?7; .' 7' 45J;42/' 45 7'
./'8149;2/'@/872/' 7A./99/#'3 4''
>4=4915A/'15<' 1A 4>4 O#',' 2/''/5 '
1 './'1''1''451 475' 78'4./' ;C/'78'
;AC45=.1?#',' /5 '7'5/=7 41 /'
/OA.15=/'78'624'75/2'':4.' 4A./F
94/;#',' 12=/''/'89;5=' 7'.4?#'Q'
./' ?1245/2' 4A@14<' 21 #'Q'
19/2' 75 1=;'1''1'<21?1 4'#'
/?12C''78' ;AC945='75' 75 1=;&''
?1'J;/#' ' 75 1=;&''824/5<'.46'
872' 7?' 12/:#' #' 4''07;25/0'
7' 7?/#' 66745 /<'A.1?@/2B'
9145' 7'W;//5' /524/ 1' 1241#'
?624'75/<' 45' ./' 7:/2#'
154'./<' @O& ./' 12941?/5 #'
/A/4>/<':4./5 .;'41''?'@0'W;//5'
/524/ 1' 1241#' 1C/''72</12''
45' ./' .;2A.'78' 7?/#' & /F
A7?/'' 15'' 1@@7 #' /'42/'' a'
2/>4'4' 5=915<#' -#' Q' 24/'' 7'
.4''@27 ./2'872'6/2?4''475#' -' /F
8;'/<#' 3' W;/'475'78'1'A12<45198&''
.1'872'.4?#',' =145',4'./'' 7'
>4'4' 5=915<#' Q' /A945/'' 7'
1AA7?6120'W;//5' /524/ 1' 1241'
7' 5=915<#' 4''A7?615475''45'
/049/#' 4'' 215'91 475'78' 7'B'
';/&''V 067'4475#& 1K1245&''
45=21 4 ;</' 7'.4?#' 4'' </1 .'
15<'91'}2/'45=8691A/#'

75 1=;#' 49941?#' 72<' .4/8' 1275'
78' ./' OA./J;/2'/?6' .129/'' #'
4' ,' 4'' :48/' 94K1' 2/Y?15#'

75 1=;' 7;'/' L18/2:12<'' ./'
24 4'.' ;'/;?W#'4' Q
75 =7?/20#' 72<#' ./'$1A7@4/#'15<'
.4'':48/#'45' 215A/#'44'
75 ./2?/2#' 1<0#'44' Q #' Q
75 070#' 72<#'4' -' /<;A/<'@0'
1<0' /5/976/' 4A.#' -' /2'
A.49<2/5'@0'.4?#' 3'¢ /8;'/'' 7'
GD74;'1697'1=145''W;//5' 94K1@/.#
' 2/1/<' 129'78' />75'.42/#
' ' />75'.42/
75 27'/#' 12J;4'' 78#' 1' ' /2F
?145'#'44'
772/#' 1?;/9#'./'</6;0'67'?1'/2'
78' 7>/2#'44'
772'#'./#'</8/1/<'@0' /2515<7' #
4' #'
72<1;5#' 7975/9#'.4'' '6//A.' 75'
6154'.'188142'#'44' -
72<1;5#' 1<0' 120#'<4>72A/<'827?'
./2'.;'@15<'./' ;C/'78' 72879C#
44' 3' 1224/<' 7' 42' +.5' /2F
?145/#' 3

72/#' 42' .7?1'#'45>79>/<' 45& ./'
A722/'675</5A/'2/'6/A45=' ./' /B'
872?1475#'4' -' 1</' 72<'
.15A/9972#' 3' 7/''<7:5'7'./'
7?? 75''1@7;' ./' 444=&1<4>72A/#'
' 667/'' ./'' 45=&'' '/A75<'
?'12241=/#' Q' 4A.' ./' 9/=19'
?;2</2/2'78#'
72/#' 2#'.4'';=;5'24/<'1' /2F
?145'#'44' 4''627677'19' 7'=/'
4''/<'1=145' 49941?' #'
72 75#'./' /=/5#'.4'5 2/1A./20'7'
./' 129'78' 72.;?@/2915<#'4' -' G
7;5 872<#' 72<#'@/./1</<#'4'
;2/#'./'$1A7@4/#'44' #'
;2210#' 129'78#'122/'/<#'44'
;2210#' 1<0' 76.41#' 199/2&''945/''
75#'4' -Q
;2210#' 1<0'!42=4541#'4'
;'A7>0#' K12'78#'.4''1?@1''1<72'45'
75<75'122/'/<'872'</@#'44' #'
Q
;'4A#',/'A.12?''15<'./'A7'' 78#'
44' Q ;2A/99&''6276./AO'78' ./'
627=2/''' 78#'45' 5=915<#' #' -'
./';5/''?7''82/J;/5 90'6910/<'
1' ./'A7;2'78' .129/'' #' -'
'%(6/21
;'C/220#' 72<#'.4''</8/1#'4' 3'
055'#' 42' .24'76./2#'44' --

#' 4A.12<#'/5'1''1=/5'
78' /520'! '7' 6145#'4'
15/'#'' 72?/<'15<'1C/5'@0' .129/''
! '78' 215A/#'4'
166/2#' 42' 1.154/9#'./'$1A7@4/#'
4' X3#' Q' 2767'/<'' /4K;2/'78'
.4?#'
12@727;=.#' 42'$7.5#'44' --'
12>1#'@1 9/'78#'44',
1''1;#' 7;5'78#'672 214''78'1'"4?B'
@79 75#'4'
1>0#'A75<4475'78' ./''1497 2''78'./#'
45' ./' ,'A/5;20#'44',' ./'
89//'@/872/' 7A./99/#'45' 3 Q#',
/672'78' ./' 7;''/'78' 72<''75'
./''1/'78'./#'45' ./'2/4=5'78'
W;//5' 55/#' Q' 1/'78' ./'
51>0'45' Q#'
/>/2'#' ;C/'78#'@4''C45<5/''' 7' ./'
5=94'.'45' 215A/#'4' -'
/:@;20#'@1 9/'78#'4' -#' '
/:A1'9/#' ;C/'78#' 15/A<7/'78'.4''
>4'4' 7' ./'<045=' ;C/'78' 218 75#'
44' -
/:87;5<915<#''/ 9/?/5'78#'4'---'
/:?12C/#'"45='k 49941?' '1'
./'21A/''1#

/ ; 672 # 72< 4A. A2/1 /< 129 78# 4
/ : 71<#872? 1 475 78 . /#44 - / 75# 2 L18 /2: 12<'' 42 '11AW# ?1A 1' /2 78 . / 45 #44 - ,# 4A.79'75# 49941?# 4'.76 78 12F 94'9/# 2419 45 . / 7 ; '/'78 72<'' @/ : //5 .4? 15< . / /15 78 1294'9/#44 Q # Q
4A79454# . / 19415 '45=/2#44 Q ! 15@2 ; = .&'' 788/2 7# 4''842'' 166/1215A/'45 75<75# - E 75F /? 672120 7645475 78 .4?# - # Q 4''A7?@1 : 4 . /9475 45 V 0<1'6/'#& Q-
4A79454# . /'>479454' #44 Q
7@9/? 15#948/'78 1'07 ; 5=#1@271<#45 . / , A/5 ; 20#4 , - 75'; A.#6191A/'78#4 72879C#' ; C/'78# 94K1@/ .&'' . /'4 1F 475 7 '4=5 .4''< /1 .8 : 12215 #'4 3 (4'' 2/1'75# 72879C#''/>/5 . ; C/'78#A75>/2 /< 7 27 /' 15 4'?#44 3 4''15F ' : /2 7 $1?/'' # 3 4''<4F >72A/<' : 48/ 1<0 120 72<1 ; 5 # 3
72.1?' 1'9/'</'270/<'@0 $1?/'' ! 78 A7 915<#4
72? 15@0# 4 9/ 78#44 3Q . / 91 / 12J ; 4''78#44 3Q
7224'# 42 /520#4
72 .1? 6 75#2/A ; '15 '' 15<697 /2'' 45#4
72 . ; ? @/2915<# . / 7 ; 5 /'''78#1 2/8 ; =//'45 215A/#4 - /2'@27F . /2'2/8 ; '/''/>/5 7''//' ./2# -
72 . ; ? @/2915<# . 7? 1'' '/>/5 . 129 78#.4''45 24=; /''45 81>7 ; 2 78 120 ; 12 #4 - /. /1</<# -
72 . ; ? @/2915<# ; <9/0 ; C/'78#1 . / 7 ; 5A40 1 2//5 : 4A.#4 3
72 . ; ? @/2915<# 94K1@/ 247 . /'8 9/0 7 ; 5 /'''78# ? 1224/'' 196. 842'' ; C/'78 75 1=; #4 Q
72 . ; ? @/2915<# /520 /2AO 129 78#4 4'' : 48/# 727 .0 />/2/ ; O# 5' 15A/''78 .4' 624</# 4''4? 624'75? /5 45 . / 7 : /2# ; 25''.4'' : 48/ 45 7 . /''2// '#
72 . ; ? @/2915<# 9=/2575 /2AO /5 . 129 78#4 3
72 . ; ? @/2915<# 129 78#.4''9/ /2 7 . / 129 78 15A. /' /2#4 - 7 45=.1?# 129 78#.4''1<?421 475 872 . /''45=/2 & 645/#44 -
7>1 A7 41#4''A75<4 475 1 ./'@/F =45545='78 44/ Q . A/5 ; 20#44 . / 2/5A. 45# # 3 0 /5 15<@7 ; 5<124/''78# - 27=2/'' 78# Q : 4A/'97''15<: 75# ; ==454# 5J ; 4'4 72#78'! /54A/#.4''<4'F =21A/#44
; 5410 ; '# .24' 76./2#166745 /<'842'' g#?454' /2B=/5/219 78 . / @'/2>15 82412'#4

& # . /'$1A7@4 /' 1=/5 #44 -
@''/2>15 82412'#724=45'78 . /#4 . /42 . /1<'J ; 12 /2'# . /42 J ; 122/9'' : 4 . . / 75>/5 ; 19'# . /42'842'' ; ''/'78 . /': 72<'W2/872F ?1475#& . /42'24 ; ?6.'7>/2 . / 75>/5 ; 19'# . /42'842'' ?454' /2B=/5/219# 1619@24/8 /0/?645=' ./?'827?'199 D ; 24'<4AF 475 15<'A75 279 78 62/91 /'# - . /42'<4>4'475''75 . /'<4>72A/'78 /520'15<'1 .1245/# Q . /42 '; 88/245='45'A75'/J ; 5A/# Q # /?7>/<'7'./'A75>/5 45 /: F =1 /'2// # - . /42 691A/''1 2//5 : 4A. 15< . //5 7AA ; 64/<'@0 ; = : ' 45415'' -
=49>0# 4/ ; /515 #.4''2/1'751@9/' </'4=5'#44
6/21# . /#45'! /54A/#61 2754'/<'@0 . / 129 78 15A./' /2#44 Q, 5 27<; A475 78 . / 19415 76/21 45 7 75<75# QQ : 48 15< <<4F '75&'' 7667'4475 7 4# QQ ! 15F @2 ; =.&''76/21 .7 ; '/'45 . / 108 ?12C/# QQ 4''9/ /2 7 72< 15A./' /2 1@7 ; 19415 '45=/2'# Q 7 ; 5<1 475 78 . /'76/21 45 5=915<# . /'64/B@19<'72 78 76/21 1''1 '842'' 62/'/5 /<# Q c 4'72</2 45 . /'76/21 .7 ; '/# Q . / 7019 A1</?0 78 ; '4A 87 ; 5</<# Q . /'76/21''/'=745= @0''; @'A246 475#./1</<'@0 /72=/ # Q 15</9 15< ; 7575A454 /5=1=/<'1''A7?67'/2'# Q ; 2F A/998'' 6276./AO'78 . /' 627=2/''''78 ?; '4A'45 5=915<# ' 42' 877 F 45='78 19415 ? ; '4A 45# 5=915<# - 12=; /24 /'</&9& +45/# - 42' 166/1215A/' 78 4A7945'4 45 75<75# - / /2'827?' ! 15F @2 ; =. 7 72< 15A./'/2'1'' 7 . / 76/21# - 589 ; /5A/''78 . /'@1 F 9/'78 ; </512</'75'4# , - 6F 62/''4>/'</?15<'' 78 . / 72< .1?@/29145 75 . /'?151=/2'' 78 4# . -# , , ! 15@2 ; =.=4>/'' ; 6 .4'' J655/0475 : 4 .'4# , , 15F </98'' 76/21'# Q-

2872+# 49941? ;'' /99# 129 78#.4''
49/ 78 !4'A7;5 128/;2#44
4''>4A 724/''7>/2 ./ 2/5A.#
757;2''A758/22/<'75.4?'@0" 45=
49941? # ! 4'4'78 ./" 45=
7.4?'1 .466/5.1?#
2C5/0# 94K1@/ .'!4994/2'# 7;5 /''
c 78# 624>1 /'/1 /'' 78 $1?/' #
=4>/5' 7#44' -
29/15''#'4/=/'78#4' 3-'
29/15'# /524/ 1' ;A./''' 78# ./2'
</1 .#4' ;'64A475'' 78'./2'
.1>45='@//5' 674'75/<# ' /2'
?14<'78'.757;2' 1<99/'</'W;/27;8'
1499/#'
29/15'#'' ;C/' 78# @27 ./2'78' 7;4''
% ! #.4''</1 .#44' - 7 4A/'
78'.4?# -Q 4''4/=/' 78' 72 7'1#'

2?'75<#'./' 91AC' 129 78#4' -Q'
2?75<# 72<#2/'A;/''' ./' ;C/' 78'
97;A/'/2'827?'./'$/'';4'#'4' #
4'' 45 4?1AO' :4. ./' 1<0'
'1@/991' 4A.#
22/20#' 7=/2' 709/# 129 78'ı
27=.499W#'4' 3' 2/1/<'75/'78'
./' 72<'$;'4A/'' 45' 2/915<#
4''>1247;'' 6;@94A''/2>4A/'#
27?:/99;'' 7645475' 78'.4?#
4'' </1 .# ,' 4''<21?1 4A'
:72C'#'
2 4K#' 7A 72# 1=/5' 78' W;//5' 1F
.1245/'45' 7?/#4' 3 1 .1F
245/&'9/ /2' 7# 3-'
2>4/ 7#'A7;2'78' 9/?/5'! '1 #'4'
--
'';51#'./' ;C/'<&'45' 215A/#'44
Q' Q c
;</512</#'@1 9/' 78#44' -3#' ,#'
,' 589;/5A/'' 78' ./'@1 9/'75'
./'76/21#' ,-
:9/2'' 45' ./' ;''/0' ?12'./'#'44
' Q
>/2@;20#' 42' .7?1'#'.4''2/'4</5A/'
45' ./' 4<<9/' /?69/#' 'QQ'
;2</2'78# 3
0872<#' <:12<'</'!/2/''/>/5 //5 .'
/129'78#?1224/'' 55/#'<1;=./2'78'
72<' ;2=.9/0#'4' -'
0872<#& ;@2/0'</'!/2/' :/54/.'
15<'91'' 129 78#4' 3

49941?#'842'' 72<#6 72F
214'78#4'
19?/2#' 42' /520#'44' '
12<75'#' '19/' 78#45' ./' 404=5'78'
$1?/'' #'4' ,

12C/2#' 2A.@4'.76#2/A7??/5<'' 098'
'?/2'872' ./''//'78' 75<75' 15<'
245<19'872'./''//'78' 72C#'4' Q,'
12C/2#' 7975/9#' ./'$1A7@4/#'44' -#
& 3# 3' 4'' 45 /2>4/X' c:4.'
$1?/'' '1' ' /2?145'#' 3'
19A7 4#' 12J;4''</#'.15=/<'1' 0F
@;25#'44' 3
12941?/5 #'$1A7@4/' ?/?@/2''78#44'
3 ./' 842'' 12941?/5' 78'
2/1' 24145#'44' 3'
122#' 42' .7?1'#'45' ./' 5=94'.'
12?0'45' 215A/#'4' Q'
122#'W;//5' 1 .1245/#'?1224/<&7'
42' .7?1'' /0?7;2#4' -'
12'75'#' 42'$7.5#':45'' ./"45=&''
691/'45' 3 Q#44' ' 2/''/5 /<'1'
' /2?145'#' Q3
124475' 2/1 0#' ./'842'#'44' 3#
3 ' ./''/A75<#' 3'
1'15A/':4.'=77<' 7?6150#&"45='
/520'! &'@1991<'78#4' # -'
1/2'75# 49941?#'.4''9/ /2' 7' ./'
129'78' 15A./'/2#4' 3'
1;9#' 42' /72=/#'.4''?7475'1=145''
72<' 15</>499/#'4' '
1;9;947#' 518/''7#' 842'' 7=/#'78'
!/54A/#'44'
/A7AC#' /=4519<#<7A 245/''78#45' ./'
2/4=5'78' /520'!99 #'4' -'
/?@27C/#'/4=..' 129'78#'78' ./'
/2@/2'945/#'44' '
/5'.;2'# 199/2&'945/''75#'4' --
42' .4946' 0<5/0'1#' 3'
/6;'A.#' 2#'?1224/<'7' 12=;/24/'
</'9& 645/#'44' -
/60'#' 1?;/9#'.4''<4120'J;7/<#'4'
,# 4'' 62/0;<4A/'1=145''
<:12<' 75 1=;#' ./'
129'78' 15<:4A.&'#44' .77'/''
1'64/A/'78'691/'872' ./' 129#' '
'.1?/<'78'./' 129&'814.9/''5/''#'
; ' 45/'':4.' 1<0' 15<:4A.#'
-' 1C/''./' 7;5/''&''<1;=./2''
7' 12.797?/:' 142#' -' "4''/''
1'@24</'45'@/<# 3'
/60'#' 1;9451#'?1224/<'7' 42' 4<5/0'
C975 1=;#'44'
/2.#' 72<#?1</'1'<;C/'@0' ./':499'
78'$1?/'' #'44' #'
/ /2' ./' 2/1 #'.4''2/?12C'75' ./'
@1 9/'78' 12>1#'44' '
/ /2@727;=.' 1 ./<219#'W;//5' 1F
.1245/'@;24/<'45#'4' '
/ /2@727;=.#' 72<1;5' 129 78#.4''
'1/?/5'45'./' 7;'/'78' 72<''1''
7' ./'A1;'/''78'./' 2/>/2'/''45'
6145#'44' ' 2;AC'7;'78'./'
24>0' 7;5A49#' a' 4''4/=/'78'
12A/9751# -Q#$ <' 4'A;''475'

45 . / 7 ; '/# 3 # , , # 4'' ¢</8415A/' 78 . / ? 454' 20# , ' / 7# 49941?# . / 2//5 : 4A.' 82412 L18 /2: 12<'' 1' 12<4519W#' 7667'/'' . / +12241=/' 78 /520 ! 15<' 55/' 79/05# 4 3 /57;5A/'' G . /' " 45=&'' '/A75<' ? 12241=/# Q # c Q . 27 : 5' 45 7' 624'75# Q 4'' '/2? 75' 62/1A./<' @/872/' . /' " 45=' 15<' W ; //5# ; ? ? 75/<' @/872/' . /' 7 ; 5A49# "A 42/'' 827?' 2//5 : 4A.' 7' 5 : /26# . 494@/2 ' ? 15 ; /9## 78' 1>70# 788/2'' . 4'' . 15<' 7' . /' 245A/'' 94K1@/ . # 4 Q . 4946# 2A.<;C/#''75'78' . /' ? 6/272' 104? 49415 # 672 214 78# 4 8941;A/<' 7' $; 151'78' 1' 49/# # 1224/<' 7' . /2# - # 4'' </1 . # QQ . 4946# . /' 2A.<;C/' L18 /2: 12<'' . 4946' '78' 6145W#.4''61''475'872' . /' 245A/'' 94K1@/ . # 4 4'' 2/62/'/5 1 4>/ /'W ; 1<21# . 49946'# 42' $7.5# A;<=/99/<# 44' - 4AC/245=# 42' 49941?# 1'642/'' 7' . /' . 15<' 78' . /' 245A/'' 94K1@/ . # 4' 49972O# . /# 44' 421 / 84# . /' A7? ? 4''475' 1=145' # 15<' $1AC 7 : # 44' - # - 2419' 15<' A75</?51 475'78' 2/5A.' 6421 /'# , , 4 /'# 2' 49941?# 45' . /' 64997 2O# 44' 4 '# 2# ? / ? @/2' 872' 7AC@24<=/#& 1 ' . /' 7 ; 2' 78' /2? 145'# 44' - 91=;/'@27;=.'45 7' 75<75'45' -3 # 4' 97 : </5# . 7? 1'# 45' . /' 4<<9/' /? 69/# ' QQ 9;?9/4=.# 16 145# 44' 7 ; 2 / 'O' 78' ; /' 2/5A.' 7? ? 15</2'' 7' . 4'' 891= ' 7? 6/9'' . /' ; A.' <F ? 4219' 7' 97 : /2' . 4'' 891=# 74A 4/2'# @1 9/' 78# 4' 3 ' 794A/'' 'O' /? '45' . /' /1290' 612 '78' . /' 2/4=5'78' . 129/'' # 4' - 76/# 9/015</2# . 4''\' 7''1#& 44' 3 ' 76.1?# 9/015</2# 55/' 75 1=;' ? 1224/<:7# 4' Q 76.1?# 94K1@/ . # ? 1224/<' 7' 72<' 45A.45=@27C/# 44' Q ' /1 . ' 78' . /2' . ;'@15<# 76.1?# 42' $7.5# . 4'' >/5194 O# 4' Q 72 49.7# ; O' 75'19>7'</# 78' ! 1991F <794<# 27@@/<' @O' .4 '' 45=# 4' ' 72 915<# 7@/2 ' /' 75' 129' 78# . 4'' A755/A475' : 4 . ' ./' $/';4 '# 4# 3 72 915<# 72<# . 4'' 24' . ' /' 1 /'# 44' - # - ' /672 '78' . 4''</1 . ' @O' . /' . 15<' 78' 72<' 1' 75# 44' 72 7' 122/27# . /' 12<4519# 44' ' 72 '? 7 ; . # 1</?74''/99/' </' W ; /8' 27;1499/'A2/1 /<' ; A./''' 78# 4' ') 44' - ' /5 ' 7' 5=915<' @O' 72<' 75 1=;# 4' Q 7' 19' 2/1 O' @/ : //5' 5=915<' 15<' 215A/# 44' 3 7 /2# 12'75# 78' 210&'' 55# 4' 3 ' 7;''45# # ./' 2/5A.''60# 44' 3 2</2/<' 7' J ; 4' 5=915<# ' 215/99# 4' 2/''# 4') 44' , - 21 # 1' /2' 4A.12<# 15<' 19 /2' 75 1=;# 44' Q 2/''# 94@/2 O' 78' . /# 1 ' . /' @/=45545=' 78' . /' Q . ' A/5 ;20# 44' 2/' 75# 72<# 1' /2' 78' . /' 12<F 27@/' 7' $1?/'' # 4' Q ' 72< 75 1=;&''=/5/27'4 O' 7' . 4? # Q ' 2/ /5</2# . /' . />194/2</' ' /72=/' 842'' '7' A199/<# 44' 24A/# 2' # . /' 1A 2/''# 44' , ' /2' ? 12241=/' : 4 . ' . /' 6'/;<7B 72<' 15@;20# 44' 2472# 1 . /: # 4' ' / /2''827?' . 4? ' 7' . /' 129' 78' 15A./'/2# 44' - # Q # - ' 4'' 97>/' 78' >/54'75# Q- 24A.12<# 2# . 4'' 9/ /2' 7' 72< 15A./'/2# 44' - 24>1 //245=' 45' . /' /'' 5<4/'# @499' 872' 9/=194K45=# 44' Q- 24>O' 7;5A49''872'@7 . ' 5=915<' 15<' A7 915<# J ; /' 475' 78# 44' , B , 3' 24K/'# 51>19# 44' Q- 27 /' 15 '' 78' 215A/# 4' [# . /42' . 76/'' 827?' 15' 199415A/' @/F : //5' W ; /5' 94K1@/ . ' 15<' . /' B ; C/'78' 507 ; # ; /@91# 7</24=7' 75'19>7' </# 6154' . ' ? @1''1<72' 7' . /' 7 ; 2' 78' 75<75# 4' Q ' 66745/<'75378' . /' 7? ? 4''475/2''872' 5/=7 41 45=' . /' ? 12241=/'78' 245A/' 2 . ; 2'15<' 1 .1245/' 78' 21=75# - 4'' <4'A;''475'' : 4 . ' 70# ' 4'' A.121A/2# - ' 4'' 1 /?6 '' 7' @1?@77K9/'$1?/'' ! ' 7 " A7 915<# 3 4'' <484 A;94/'# 4'' 45F '79/5A/' 7' . /' 5=94' . ' 7 ; 5A49# 3 ' 4'' 45' 2 ; A 475'' 827?' . 4'' ? 1' /2# 4''7667'4475' 7' . /' ; J ; /' </' ' 21<1# 4'' 8149 ; 2/' 2/F '6/A45=' ./''/A75<' ? 12241=/' 78' 1 .1245/# ' 4'' 62767'19' 872' /520' ! ' 7' ? 1220' . 4'' <1 ; =. /28' 45B +# ' ; /@91'57'1'81>7 ; 24/' : 4 . ' 1 . 1245/# ' ''60&'2/672

7 2515<7 8 78.41?@1''1<72&
? 7</78948/45 75<75#Q
;2A/99# 154/9#44 -
;2A/99# /520#44 - 4'' 7645475
78?;'4A45 5=915<#

$& ! ! F 4'.76
78 J;49.# 6154.1?@1''1<72545
75<75# 4 4'' A.121A/2#
/5 1:10827?75<75#
- 2</2'' 199 ./ 5=94''.
7;78 21>/945/'# -
W;1?6;9A.21'/'#/ J;1?</A721#&
./15 ./?#4
W;/27;1499/# <99/</#4 ,,}44 -,
2/1/< ;A./''' 78 72?7;.#
4 ,,}44 -
W;45 75#$#.4'9/ /2 7 72<' 15F
A./'/2#44 -

,/# 1 /:?12C/# 45
3 Q#44
19/4=. 42 19/2#.4''2/'4</5A/45
./ 4<<9/ /?69/#4 QQ 4''
67/?'78'V 1'A74=5/'&:24 75'./2/#
QQ O/A;475 78'.4'' '/5 /5A/
1:12</<'@0 42 /520 75a1=;# 3
154494/'#@1 9/'78#44 3
1?'/0#1@@/0 78) '/A;9124'/<'15<
./'?75C''<4'6/2'/<#4 3
15/91=.# 842''15<'7590 з 78#
'C/A.'78'.4''A12//2#44 , 6F
6745/<''';6/245 /5</5'78'@;49<45='
15<'=12</5''' 7 49941?# ,,
15/91=. 12</5'#44 ,-
1 A9488/'@/./1</<#4 #
/@/99475 78 3 #4
/A;'15A4/'# '19/' 70#4 - ./
A75'/J;/5 >79;5 120 '60'!'0'/?#
-
/A;'15 '1 ./'@/=45545='78 ./
'/>/5 /15.'A/5 ;20#4 -
/872?1475#842'';'/B78 ./ :72<#

/'721475#./#4 ,
/>79; 475 78 3QQ'69155/<#N ,)
44 Q
/0579<'# 42'$7'.;1#.4'' 7645475 78
42'$7.5'!!15@2;=.'1''15'12A.4/A#
44 3
./# '915<'78#1 1AC'75'./#4 Q
4A.# 1./2#.;5=#4 Q
4A.# 1<0' 55/#?1224/<'7' <:12<'
./'84=.45=' 129'78' 15A./'/2#4
#
4A.# 42' <?;5<# .4'' 9/ /2 7
$1?/'' #4 3
4A.# 1<0' '1@/991# 15<' 72<' 2F
?75<#44
4A.# 42' 1.154/9#4 'a' / /2

827?' ./ 7;5/''' 78' 79915<' 7#
a /?742' 78'.4'' '4' /2' 1<0'
27./
4A.# /5/976/' 1<0#./2' ?7./2'
/ 4A/'"57990''4' # 75F
21A/<'45' /1290'948/'7' 42a a.4946'
0<5/0# /<;A/'' 72<' 75 8'
070# - /2' A.121A/2# -
/2'A.49<2/5# @0'./2'.;'@15<'15<'
@0' 72<' 75 070# 3' /2' 97>/'
872'./2'@27./2# 7@/2' 129' 78'
''/0' 3' 4'' 9/ /2'' 7'./2#
3# Q' .12=/<'@0'./2'@27./2'
:4.'.1>45='45A4/<'.4?'7'2/1'75#
/6121/<'827?'./2'.;'@15<#
"//6'' .7;'/' :4 72<'
75 070#'57:' 129' 78' />75'.42/#
1224/<' 7'.4?'@0' 49941?'
1;<# ; A20' 1=145''./'
?12241=/# /1.'78'./' 129'
78' />75'.42/# 1<0' />75F
'.42/&'' <4'166/1215A/'827?'./'
:729<# #
4A.# 4A.12<#./' 475<75'?/2A/2#
4'
4A.# 4A.12<' 72<'L=215<'75'78'./'
91'M# 4' /A7?/'' '794A4 728'
=/5/219' 7' /520' ! #'
42 0':72C'87;5<'872'.4?'7'<7#
'./'9/=19' ?;2</2/2'78' 42'
.7?1'' 772/# /A7?/'' 1'
@1275' 15<' 972<BA.15A/9972#
4'' @1'/'45=21 4;</# 4''
</1.#
4A.#./' 4A.' 72<'L=215<'75'78'./'
972<BA.15A/9972M#4' //' 12F
:4AC# 129'78
4A.# 7@/2# <?4219';5</2'./'
7?7?75:/19.#.4'' 612/5 1=/#'4'
3' + 12:4AC# 129'78
4A.12<' #'.4''</67'4475#4' 3-
4A.?75<'15<'7?/2'/# 1220' 4 KB'
270' ;C/'78#.4'' @42.#4'
757;2'' ./16/<' 75'.4?#'
2/1/<' 72<B 4/;/515'78' 2/F
915<' - 4''?7./2@''?12241=/'
7' <:12<' </' 945 75#' 129' 78'
45A795#
4A.?75<# ;<7>4AC' ;12' ;C/'
78#?1224/''./':4<7:'78'./' 129'
78' /2872<#4' c
4<9/0#.4''/5<#4'
4'@0#1./2#;5=#4 Q
4>/2'# 4A.12<'1>1=/' 129#44' -#
3' 66745/<'7'./'A7?7?15<'
78'./' 5=94'.'872A/''45' d145'
7.'128# ?0#?1224/<'7'./' 129'78'
/4A/'/2#4' -Q' /2'</1.# -Q
7A./99/'W;//5' 94K1@/.&''9/ /2'75'
./' 5=94'.'XX01</':4.#4#

149;2/#' 78' 72<' /5@4=.' @/872/# 4' Q#' 44' 3' ./' 5=94'.' 89///A2/'.4' 720'78'.'/#'44'H' ;5</2' ./' 129' 78' 45<'/0' @/F 0?/2&''V 7/</21#&4' 872/#'

7A./'/2#' 1:2/5A/' 0</' 129'78# ' #&' 199/2&'#'4' #' - #' - 44' -'

7A.872<#' 42' .7?1'' 79/05' !4'F 8 :$7.5#' 42' 19/2#'.4'' </1.#'44' A7;5#''; '6/A /<'78'./2/4A19' 764F

5475'#'4' - ' 4''81/#'4' ' 194'@;2O#'$7.5' 129'78#'4' 3-' 4'' 97O19 0' 7' 4A.12<' #' 3-' /F

7AC45=.1?#' 1'75' /5;72.' ./1</<'@0'./'21@@9/'1' 42/5A/'/2#' 842'' 12J;4''78#'44' 3' /'270'' 3-' 4''A.121A/2#' 3-'

./'616/2'' 78' 1'A705/#'./'15 4F 194'@;2O#' B 12=12/' 7;5/''' 78#

J;120#' 3 4' 3

7AC45=.1?#' 1275#'.4''' '75' <:12<#' 194'@;2O#' 75 1A;/'./'842'' 129'

18/2:12<''!4'A7;5' 75</'#'44' 3# 78#'4' 3 7;5<'' 4'.1?' @@/O#'

3' 4''' /2>4A/''45'./'84/9<#' 3'

7D1'#'</#' 6154'.' 1?@1''1<72' 5/12' 4''</1.' 27:5/<'"45='78' 15#' 3'

./' 1/215#'.4''A1'/#'4',,' 194'@;2O#' 75 1A;/''/A75<' 129'78#'

7?1=51#' ./#';5</2' /'12/' 72=41#' '/99'' 49/' C45=<7?'78' 15' 7' 49B'

4' 3- 7?/#'=2/1' A758/2/5A/'78' 82412''45#' 941?' A276/#'4' 3' "54=./<#'

4' ' 1AC/<'@0'./'2776'' 78' c' :4.' ./' 91AC' 245A/#'75' ./'

.129/'' I #' - OA4/?/5' 45' ./4=.''1@7>/' 1' 7=;/#' 3' '

;276/'A75'/J;/5#' - ./'@1 9/'78' 74A 4/2'#' 3' 4''

7?5/0#' /520' 0</50' 129' 78#' 7./2''/2>4A/'#' 3' 1224/'' 94K1F

4' #' - @/' </' 7.;5#' 3' 4''</1.#'

7?5/0#' 42' 7@/2' 12'.1?'A2/1/<' 3' 4''8;5/219#' 3'

129'78'44' 3' 24'.'/'1/''=4>/5' 194'@;2O#' 4A.12<' />499/' 129'78#'

7#@0'"45=' 49941?#' - 1224/'' ?1224/'' 94A/'</' 75 1A;/#'4' 33'

./' <1;=. /2'78' 42' 97;</'9/0' 194'@;2O#' .7?1'' 129'78'4' 3-

.7>/9#' 3 "499/<'1' ./''4/=/'78' 29/15'#' 3-'

7''#' 72<#'.4''97''78'./' ;A./''78' 15<:4A.#' <:12<' 75 1=;' 842''

9@/?129/#'4' Q#' Q' 4''/64F 129'78#'.4'' 612/5 1=/#'44' '

=21?' Q 1C/''612':4.'./' 7??75:/19.'

7;5<' 1@9/#' /1''78'./#'45' #' ?/5#' !4'./'' 27?:/99'7'

4' 3 1''; ?/'./''A/6 2/#' ''/1'

7;''4997 5' 61:5/<' @0' 6145' 7' :4.' <?4219' 91C/#' 245='''

215A/#'4' /?6'' ?1</' 7' 7>/2'./'89//'7'.129/'' #'

2/A7>/2'4#' # # /A7>/2/<' 2/1/<' 129'78' 15<:4A.' 15<'

@0' /2515<7' #' 5>1</<'@0' !4A/' <?4219' 78' 5=915<#'

94/:4''% #'3 /60'&'' </'A246 475' 78'.4?#'

7:#' 7975/9#'./'$1A7@4/#'44' Q' 245=''7>/2'./' 245A/''' 120#'

70@;2=.' ;A./''' 78#'44' F 4''A75>/2'1 475':4.'4A.12<'

1AC/<'@0''?199B670#' 27?:/99#' 4''824/5<'.46'

;88/44'$#'.4''9/ /2' 7'./' 129'78' :4.'./' 129'78' 912/5<75#'

15A./'/2#'4' 4''5/=94=/5A/'45'?75/0'?1 /2'#'

;''41#'/88/A'78'./' 12 12'45>1F 4''/06/5'/''1''1?@1''1<72'

'475'78#'75'./' 5=94'.'?12C/#'44' 7' 6145#' 66745/<' 1'/2'

,- 78'./' 12<27@/#' 4''?15F

;''415'#'</8/1'78'/4=.0'.7;'15<#' '475''1' 45A.45=@27C/'15<'45' 45F

@0'.129/''% #'44' ' A795&'' 55' 4/9<'#' 910''.4''

;@19#'4'.76#=7/'':4.'./' 5=94'.' 9;/';5</2' 2'' /AC/&':45<7:#'

12?0'45 7' 215A/#'4' Q' 12241=/'78'.4'' <1;=./2'

;.>/5#' 1 24AC#'45' ./' 7:/2#' $/?4?1#' 7' 2' 12/2/#' 3'

4' 1224/'' 55/#'<1;=94/2'78'./' 129'

;.05#'@12750'78#'4' 78' ;2945=75#' Q

;915<#' <:12<' 155/2'' .42<' 129' 15<:4A.#' <:12<' .42<' 129' 78#'

78#'4' 4''2/91475'.46' 7' 44' Q' 4''75#' 5-1' 45A.45=B'

W;//5' 94K19+.#' ./'62/'/5' =-5D,' %

.7;'/#

15 1 /#24'/78 ./A4 0 78#4a
15 454# ./ 19415''45=/2#!15@2;=.&
788/2 7#44
121A/5;'#.4''/<4475'78 47'A724</'#
4
1;5</2'# 1 ./2#A758/''72 7$1?/'
#44 Q 2/'/5 1 1 A758/2F
/5A/'1 7 ./?7</'78'1''1''451 45=
49941? #
1;5</2'75# /520#?1224/'' 215A/''
75 1=;#4
1;5</2'75# 2'# ./$1A7@4 /#44
1>1=/#a .7?1'# '/5 1'' 1=/5 78
/520 ! 7 =145#4
1>1=/# 4A.12<#15<./ 7;5 /''78
1AA9/'84/9<#44
1>1=/# 1<0 991#./2 ?12241=/#44

1>499/# 42'Ć /72=/#18 /2:12<'' 12F
J;4''78 19D81O#4' -
A12'<19/# /./# 72<#44
A12'<19/# 72<#45 124'#44 c
A./99/5@/2=# 129@727;=,1 44# 3
A7@/99# 2#?/?@/2 78 612941?/5#
1''';'6/A /<$1A7@4 /#44
A7 915<#';'64A47;''?7>/?/5 ''45#45
3 #44 3 $1A7@4 /'89/'4=5 872
H'</@1;A.45='I ./'12?O'45#44 #
- <<2/''' 827?'./'$1A7F
@4 /''78# 7'$1?/'' # 3 /'4=5''
78 45>1'475 78# 827?' 215A/# 3
$1A7@4 /'45 24=;/''45# Q 27D/A
78';5475':4.' 5=915<#' Q- 5475
1AA7?694'./<# # 3 745A4F
</5A/''A755/A/<':4.'./'=2/1 A#
3 W;/'475'78 ./' A7 4'.' 24>0
7;5A49# B ,3# Q# 2/5A.
</'4=5''75# 72 45&''J.1<275'
75'4'': 10 7' <45@;2=.# Q# -
'' 45=97247;'' 2/ ;25 7' ;5C42C#
2 15.76/&'@499'872 H.45F
</245='./'A915''827?'@/45='1 ./'
<42/A475 78 ./42# ./1<'#I ,
A7 4'.'$1AJ@4 /'57@9/?/5''/5 '7
./' 1'9/' 78 <45@;2=.# '
/?6 /<'45>1'475 78# 45' Q#
3 ./'$1A7@4 /'1=/5 7975/9
1:C/# 3
A7 # /520 75 1=;'A2/1 /<' ;C/'
78 75 1=;#N' Q
A276/# 49941?#6;2A.1'/'' ./'C45=F
<7?'78 15#4 3
A;<1?72/# ./' 1A72# 1 $1A7@4 /'
1=/5#44 3 AA7;5'78'.4?#
/1872.#" /55/. &" /5K4/' .42'
129'78#122/'/<#44 #
/<9/0# 1 ./245/#./2 <1;=./2# ./'
;A./''' 78 ;AC45=.1?'.42/# 44
3Q
/5/'457#./''45=/2#44 --

/6;9>/<1# $;15 </# 75/' 72 ?/'
A7?? 4''475/2'' 872 5/=7 41 45=./'
?12241=/' 78 245A/ 2.;2 15<'
1 .1245/'78 21=75#4' -'
/0?7;2# 1<0 1 ./245/#?1224/<'7'
42 49941?' 05<.1?#a4 -#

/0?7;2# 42 $7.5# 45 ./ 5=94'.'
12?0'45 215A/#4' Q'
/0?7;2# 42 .7?1'#?1224/<'7'./'
/0BW;//; 1.1245/' 122#4' -'
'642/''7' ./'.15<'78'./' 245A/''
94K1@/.# - 4''/5<# -'
.1C'6/12/# 49941?#.4''A.121A /2'78'
W;//5 1.1245/'78 21=75#4'-'
/2872?15A/'78'.4''V ;/98 ;' 4=.&
45'./' 4<<9/' /?69/# Q'
./884/9<# 7:1=/2 1<0#?1224/<'7'
./' 129'78 /4A/'/2#4' -Q'
.AD15AC77#7:5'78#44' 3'
V' ./6./2<&'' 7?69145 # /#& 78'
19/2' 75 1=;'#44' ;@94'./<'
@0' #
./:12<# 72<#'.4''?12241=/#44' 33'
.46''78' ./' -.'A/5 ;20#4' '
.7>/9# 42 97;</'9/0# A7876/21 /''
45'./'1 1AC'75' 7;975#44' Q'
4''81 /# - C/A.'78'.4''948/#
- 2467?94# -3' 4'' 2164<'
627?7475# -3' 1' 7=;/#
- ;/ /06/<4475' 1=145''
2/'';5</2' 72<' /2C/9/0# -Q'
4''>4A720' 788'+ 191=1#44' -Q'
7''788'./' A4990' '9/'# -Q' 4''
</'A/5<15'' 3
./2/:'@;20# .129/'' ;C/'78#9/ /2''
827?'./' 129'78' 15A./'/2' 7#
44' Q' ' 8 72<' .1?@/29145'78'
./' 7;'/.79<#' Q' 4'' 4995/''#
' 7 4A/'78' .4?# - 4''
.7;'/# ,Q' 4''2/42/?/5# Q-'
./2/:'@;20# 129'78# '9145'@0' ./'
;C/'78' ;AC45=.1?#44' - 4''
:48/# - #
./2/:'@;20# 55/' 1241# 7;5/''''
78#.79<'' ;AC45=.1?&'.72'/':.49/'
./'?;2</2''./2'.;'@15<#44' - #
4?15A1'# 7019'94'' 1#4'
4?4/2# # 2/5A.'5?.1''1<72' 7'./'
A7;2'78 94K1@/.# 4' -3' /F
'270'' /4A/''/28''.76/'# -
V' 4?75# ;/'</' # Y?742/''<;#&
4=572J5A/'78'./'1; .72'78#78' 5=F
94'.'.4'720#44'
45A9142# 72<#122/'/<#44'
475' 799/=/#4' Q'
C/8845=75# 42'$7.5#4' - ;AF
A//<'' 7' ./'49/'78'!4'A7;5' 1'B'
'/2//5/# - k
945='@0# 7975/$'#./'$1A7@4/'1=/5 +

44 3 7/ 7 /2? 145 : 4 .
? 75/0 872 " 45= $1? / Q
945= . 0 7975/9 . 4 < /1 . 44 Q
? 199867 0 44
? 4 42 .7? 1 . 4 4995/ 1
974 d 4 2/672 78 1 A75F
>/2 1 475 @/ : //5 1 .1245/ </
/<4A4 15< 19 45=.1?
! 19 45=.1? &9/ /2 7 75 ./
1 1A2/ 78 12 .797? / :
4 9/12545= Q 4 9/ /2 75
./ A7? / 78 - ,
?4. 7@/2 ? 1224/< 7 ./ 7;5 /
78 ;5</2915<4 3
7.7 J;12/4 -
790?15 ./ ;9 15 >4A 724/ 78
.129/ ! 7>/2 4 ,3 Q
7?/2 72< ./ 2/1 /19 1C/5
827? 44 Q- 5 ./<4 6; /@/F
: //5 ./ 4 .76 15< /15 78 12F
94 9/ Q <<4 75& A.121A /2 78
45 ./ V 6/A 1 72 W; //5
55/& <4 94C/ 78 .4? ,3
4 616/2 4? 694A1 45= ,/ ;C/
78 129@727; . ,3
7?/2'/ ./ 27 /A 72 @/ 210/<@0
72< 4A. 4
7?/2'/ ./ 627; < ;C/ 78 44 3
72< 7:6/2 A.121A /2 78 .4?
3 4 9/ /2 7 / 129 78
15A./ /2 4 2/?12C 1
.Y A7;5A49 1@9/ 44 , 12F
241=/ 78 .4 <1; = . /2 1 . /245/ 7
42 4994 1? 05<.1? -
6424 /< 214 45 .4 A.121A /2 -
4 /2>4A/ 7 / 7; / 78 157F
>/2 - .27 : ; 6 199 .4 7884A/
-
7?/2'/ 7@/2 122 129 78 .4
?12241=/ : 4 . / <4>72A/< : 48/ 78
./ 129 78 /0 4 3 4
2419 872 ./ ? ;2</2 78 42 .7?1
>/2@;20 3
7?/2'/ 215A/ 7 ;12< 7 ;5 /
78 4 3 /2 .12/ 45 ./ ? ;2F
</2 78 42 .7?1 >/2@;20 3
76.41 9/A2/ 78 157>/2 ./ A
78 ;AA/ 475 62/ /5 /< 7 44 2
AA7;5 78 ./2 1 /> /5 0B /> /5
0/12 78 1=/ /2 9/ /2 7
./ 129 78 15A./ /2 -
7; .: /99 .7?1 4
7; .: /99 7@/2 ./ $/ ;4 67/ 4

6145 1 07;25/0 .27;=.45 ./ - .
A/5 ;20 4 /9A7?/ 78 ./
5=94 . /?@1 0 45 75A9;F
475 78 ./ =2/1 7724 .; 12
7;5<1 475 78 ./ 5J;4 4 475
/1; 0 78 2151t81 3 6154 .

1?@1 1<72 45 ./ - . A/5 ;20
2 15.76/ /5 1 /5>70
/0 2172<45120 7 44 3 Q
W;/ 475 78 . / 6154 . ;AA/ 475
3 914?15 7 . / 6154 .
.275/ 3 3 . / 842 12F
4 475 2/1 0 3 /2/A/6 475
45 6145 3 . / /A75< 12 4F
475 2/1 0 3 5 24=;/ 3-
8 12 : . 4A. 127 / 7; 78 . /
A914? 7 . / 6154 . .275/ -
6/5A/2 72< ? 1224/< 7 727 .0
0<5/0 4 - 2/1 /< 129 78
;5</2915<4 B - " 499/< 1 ./
@1 9/78 /:@;20 - - -
6/0 915<45= 78 . / 2/5A. 1 44

64/ $1A7@4 / 15< 49941?4/ +
5872?/2
6;2 @1 9/78 4
60 0 /?>79;5 120 1 . / @/=45B
a545=78 . / , . /A/5 ;20 4 -
18849/7 41AA.4?7 .4 7645475 78
. / ?12241=/ 78 /520 ! 15<
1 .1245/4
142 1 /278 44 3
15<4 . /520 =;12<415 78 . /
A75>/5 78 215A4 4
1</ 4 .76 78 16. -
15.76/ 2 /5 1 /5>70 /0 21F
72<45120 7 6145 44 3
159/0 42 49941?@/.1</< 4
/65/0 . / 67/ 44 /F
A7?? /5< 4 8/997 " 4AC
7 72< 15A./ /2 4
</1 - ;24/< 45 / ?45 /2
@@/0 - 4 9/=1A4/ -
/25/ 7=/2 81 ./2 78 ./1; .72 78
V 24 21? .15<0 & 44 3
/>/5 2 2/A72 78 ; 75 45 ./
64997 20 44
$7.5 2 75 . / 5=94 . 12?0
45 6145 44
7C/ <2415 ?1224/< 7 ./
7 .1=/2 ;A./ 78 ;8879C 4 -Q
7;2 75 72< .15=/< 4
;AA/ 475 A 78 44 6154 .
6145
;AC945= 42 $7.5 75 19 /2 75F
1=;& ?1 J;/ 44 #
;8879C <?;5< / 91 79/ 129 78
.4 A914?7 ./ 5=94 . .275/ 4

;8879C .129/ 215<75 ;C/ 78 1
7;2510 4 1224/ 120
;<72 /OBW;//5 78 215A/ 3
4 </1 .
;8879C 129 78 45 215A/ 4 33
;8879C 2/0 ;C/ 78 ;8879C @/F
./1</< 4S

;84 74C# /520 215<75 :C/ 78# .4'
</1 .# @0 ': /1 45= '4AC5/''# 4
;8879C# 447?1' 7:12< 129 78# 4
75>4A/<'78'.1>45= 21884AC/<'
:4 . ./ 6;@94A ?75/0# /Bg
624>/<'78'.4''' 188'78 72< 2/1';2/2#

;8879C#$1?/'' 7;12< .42< 129 78#
?1224/<'7 55/ 751=;# 44 3
;8879C# 7:1=/2 ;A./''78#?1224/''
./2'H.72'/BC//6/2I <2415 7C/'#
4 -Q
;8879C# 1<0#./2'7884A/'872 ./ '19/'
78'612<75'# 4
;99O# ;/ </# 1?@1''1<72' 827?'
/520 ! '78 415A/' 7 .129/''
# 44' 5A4</5'75'.4''>701=/'7'
5=915<#
;5</2915<# 129 78# C499/<'1' /:BB'
@;20# 4' + 6/5A/2# 72<'
;5</2915<# 7@/2' 6/5A/2 .42<'
129 78# 4' - 44' 4'':4840'
1<0' 55/ 4=.0#
;5</2915<# .129/'' 6/5A/2' 87;2.'
129 78# 44' 4''57@9/'94@2120'
1' 9/5./4?# 1224/<'7' 1<0'
55/ .;2A.499# 4''2/ 42/F
?/5'1' 9.726/# 4''9/ /2''
78'45'2;A475''7' 72< 15A./'/2#
Q# 3# 1224/<'7 55/
.;2A.499# Q' 4''9/ /2'7'./'
129 78 15A./'/2# Q-'./' 129
78 15A./'/2@''9/ /2'827?'!/54A/'
7'./# 44' 72< ;5</2915<@'
9/ /2'7'72< 15A./'/2#
;22/0# 129 78#.4''</8/1'78'$1?/''
!'1'9:97<</5#4'
;''/0# .7?1'' 991 A9488/# 129 78# 4'
-
;''/0# 19@7' /9>/2 75'A2/1/<' 129'
78# 4'
;''/0# 7:9/2''45 ./'?12'./''78# 44'
Q
:/1 45=' '4AC5/''' 78 -- # 4'
2/1<'78'4''2/166/1215A/'45' 3 #
1?/''=4>/5' 7'4#
:48# /15#.4''945/''75'!15@2;=.'
J;7/<# 44' - 4'' 7667'4475' 7'
./' 19415'76/21# QQ' 4''>/2'/''
749'./'<4'A72<'45'./'76/21#
0</5.1?# 16 145# 78' ./' 120'
7'/# 44' - 2</2/<'@0'./' " 45='
7'A1220' 19/2' 75 1=;# -'
0<5/0# 9=/2575# 4' # -
0<5/0' 727 .0# 199/2:'' V 1A.18'
24''1#& 4' # - 1224/<' 7'
72<' 6/5A/2# - 4''</1.'75'
./'@1 9/'84/9<# - ./42'A.49<F
2/5# - 1224/<' 7' 2' ?4.#
3

0<5/0# /520# H'./'.15<'7?/' 0<F
5/0#I'18/2:12<'' 129'78' 7?5/0# 4'C
-
0<5/0# ;AO# 4X - 199/2&' 45/''
75# -Q
0<5/0# 42' 944946# 2AA7?54 5</<' 7'
./'A12/' 78' !19'45=.1?# 4'
1224/'' 215A/'' B49'45=941?#
75 21A /<'45'/1290'948/'7' /5/976/'
/>/2/5 O# /5'.52'#
0<5/0# 7@/2# A2/1/<' $4129' 78'
/4A/'/2# 4' + /4A/'/2
0<5/0'81?490# ./# 4'

8 # 42' 49@/2# 7>/2572'78'
$' 1914'# 4' Q' 4'' :48/' 15<'
/520' ! # QB
19@7# 1<0# :48/'78' 42' 49@/2'
19@7#' Q' /520'!494#''2;AC'
@0'./2'=21A/'15<'@/1;O# QB #'
/2''75' @0' /520'&9; #'
1224/<' 7' <:12<' </' 945 75'
129 78' 45A795#
19912<#' 7;5#44' ' 4'+'1AA7:5'
78' 72<' /9872[':A75<;A'45' 215A/#'
' 1 24726&''1AA7;5' 78# Q'
/8/1/<'.0'./' ;C/'78' 129@7F
27;=.# - 5' 5=915<# -'
15CA2>499/# 72<' 2/0'78' /2C/'
A2/1/<'842'' 129'78# 44'',
10972#$/882/0# 44'' 3'
/?69/# 4<<9/# =2/1' 51?/'' 45F
'A24@/<'45'./'@77C''78'./#'4' QQ'
/1''45'./# Q
/?69/' 2'#'?1224/<'7' 42' .129/''
4 9/75# 44' 33
/554''75# 2A.@4'.76# 44' 3 # 33'
/27;/544/#'4/=/'78# 4'
.15/# [;875''40.' 129'78# ?12F
241=/'78'.4''<1;=./2'7' <:12<'
!1'75# 64' 3#
./12/'# 762/''475' 78' ./' 72<'
.1?@/29145'75' ./'?151=/2''78#
44' -#
.7?1''# 2''L 724551W# ./'87;5<18'
475'784./=2/1' />79; 475'62/612/<'
45' 94/'.7;''/'78# 4')'44' Q'
.27AC?72 75# 42' 4A.791'#.4'</1.#'
4'
78'# 2'# ./''45=/2# 44# # QQ#
-# -# -- /2'?12241=/#'
-
7915<'1AA7?6154/'' 72<' 1AA9/'F
84/9<'7' 157>/2# 44'
72AO# </#.4''16797=0'872'./'
122/''78'./' 5=94''.1?@1''1<72&''
'/A2/120# 44' ./'J;/'475'78'
./' 6154'.' ;AA/''475#)'3' 5F
24=;/''78'8215A/#'3-'/8' 8' 72<

15A./' /2&'' 45 /2>4/ :' : 4 .# 2/F
'6/A 45='$1? /'' #
72J ;/? 1<1 ' 215<' 5J ;4'4 72# 4' '
72245= 75 ' ! 4'A7 ;5 # 42' ' 05='
(A2/1 /<# 44' 3-'
72 7'1# '4/=/' 78# 44' ' ,'
7 ;975# '4/=/' 78# 44' 3# ,' 149 ;2/'
78' ./' '4/=/# $ # -# ,'
7442550# A16 ;2/' 78# 4' ' ,'
7 ;2575# .12<4519# ''/5 ' '7' 7?/'@0'
215{74'' # 4' ,'
7 ;2>499/# <?4219# 'A1 /2'' ./'
?0251'89// # 44' -' ,'
7 :/2' 499# 15'499 ;' 21 475' 78'948/'75#
4' 3' G ¢' B
7 :5'/5<# ;2/9415# 44' '
7 :5'./5<# 1<0#./2'15':/2' 7' 72<'
1 .;2' # 44'
-*H>*;-' 129' 78# 122/' /<# 44' '
-,*+7 78'(*
/<451'</9' 1?67# 4' '
215C872 #N' '
169/'# 4' '
12A/9751# 4' 9'
974'# 4' '
7' 19# 44' 3
*-+;+;50' +B,' 8;-?+' ;;' 3 # 3)'
+B,'?,4501' 3
-,)*@0,7' ;-' A5BO' ;?B5C' 58'
;04B,?+,-' 1,*+B' 58' B;?' ?50' ;;'
-# 3
2/>72# 72<' ./4/8'$;' 4A/# 44' 3Q'
24?5/99# 4'.76'78' 72:4A.# 44' #

-;C5);',PC,1;+;50' +5'>01,-' ;-'A5BO'2
*-=5-5>E=';;' -- B56,)?' 450M
1>4+' *+' --
27 /2# ./'$1A7@4/'1=/5 # 44' -'
;875# 1<0' 1./245/# ?1224/<' 7'
<:12<' 1'75# 18/2:12<'' 72<'
75</'# 44' 3#
>-,00,' -*0s5;?' ;?45>0+' 1,'?,0+'
50' *0' ,9=*??7' 8-59' -*0s5;?'
+5' ,0-7' '4' '
701*))' *+B,@'B;?' ;=),'4' -

' ! 942 # ' 76/# .4'' 2/690'
2/'6/A 45=' 2' 79/# 4' -'
/?6'' ?1</' 7' 45>/4=9/'07;5='
5=94',' 57@9/?/5# 7' 7?/' 7'@/'
./9<'1''.7'1=/'# 3'
2/A. # /2?'' 78' ./' 2/1 0' 78# 44'

! ' # ./' 19415' '45=/2#
!' 44' # --
!194/2/# ./'7 :9/2#.4'' 2/1'75# 44' ,Q#
, ' 4'' 1AA7?694A/' 121# Q'
01?45/<'@0' ./' 72<'# # 3

! 15@2;=.# 42' $7.5# .4'' 1<<4475'' 7'
"4?@79 75# 4' ' 4'' =7''4664 5=' '
9/ /2' 7' 72<' 15A./'/2# 44' -'
4'' A7?/<4/'# 3 ' 4'' </'4=5''872'
1'9/' 7:12<# -3# 3 ' /910' 45'
g ./'627=2/''' 78' ./'6191A/'78' 9/5F
./4?# ' 2' >15'&'/64=21?'75'
'.4?# ' 5>0'78'.4''81?/'1''15'
1; .72' 15<' 15' 12A.4/A # - ' 42'
$7'.;1' /0579<'&'' 7645475# 3'
<?421 475' 78' ./'W;//5'872'.4?'
3' ?6970/<' 7'2/@;49<'615'78'
"4?@79 75# ' 4''9/ /2'' 7' 72<'
15A./'/2' 75' ./' ';@D/A '
5 27<;A/'' ./' 19415' 76/21' 45'7'
75<75# QQ' ;49<'' ./' 76/21'
.7;'/'45' ' 10?12C/# ' 4''
A7?/<0'78'./'V 758/</21AO#& QQ'
4''9/ /2' 7' 72<' 15A./'/2#1@7;'
19415' '45=/2'# ' 4''9/ /2' 7'
72<' 915A./'/2'75' ./'1 /?6'7'
c' </.275/' W;//5' 55/# ' 4''
9/ /2' 7' ./' 129' 78' 15A./'/2'
2/'6/A 45='"4?@79 75# ' 5<'
1'' 7'76/21'5/=7 41 475'# - ' 4>/''
;6'.4'' A755/0475':4.' ./' 6/21#

! 15'<0C/# 5 .750# .4'' :48/# 4' '
! 1;</2175 # 245A/# A75>/5 475' @/F
:/5'.4?'15<' 245A/' ;=/5/# 44'

>P' B59?'E,0+),9*0' ;0' @*;+;0E'
+5' U>,,0' *+B*-;0,' ;' Q-'
6?5-'5-' ,E5'+B,' A*45=;+,' *E,0+'
44' # - ' ,*6,?' 2' ,-9*;0?'

,E*' ;,-50;95' 1,' 4*C+>-,1' =7'
-=-7' C;-*+,?';' Q'
,01t9,' >D,' 58' B;?' ?D;))';;' 3'
+' +B,' =*++),' 58' >1,0*-1,' -3#
-,#
!/54A/# ./' 129' 78' 15A./'/2#'
?4''475' 7# 44' ,' 2/1?/5' 78'
5=94'.' '14972'' 1# 45' 3 ,# ,'
224>19' 78'./' 129'1# Q' /2/F
?750' 78'.4'' 2/A/6475# ' ?F
@1''1<7241' 948/' 45' ! /54A/' 1' ./'
A97'/'78'./''/>/5 //5.'A/5 ;20# '
/?6' 7' /5 /2' 45 7' 1' 2/1 0' 78'
A7??/2A/':4.'./'!/44/.?'# ,'
49/' 76/21'1# 61 2754K/<' @0' ./'
129' 78' 15A./'/2# Q' 72<'
15A./'/2&'' 'C/A.' 78' ./' A75F
<4475' 78' ./'! /5/415' 2/6;@94A' 45'
.4'' 4?/# Q' 5<' 78' ./'J ;122/9'
:4.' ! /54A/# 3,# ' ./'' /F
51/' 78' ! /54A/' A7?612/<' 7' ./'
7;'/' 78' 7?275'# Q' ./'
4=5720' ;2=/<' 7' 1C/'612' 45' 1'
:12' 1=145'' 215A/# 5';9

788/2/<' 7' ./' 5=94'.' 1?@1''1<72' 45' !/54A/#' ' 72<' ;5</2915<&'' 9/ /2' 75' ./' ';@D/A#' ./' ! /5/ 415' 1?@1''1<72' 45' 75<75' 872@4<</5' ./' A7;2#' 3#' C/A.' 78' ./' .4' 720' 78' ./' ! /F 5/ 415'2/6;@94A#' ' 5<'78' 72<' 15A./' /2&'' /?@1''0' 7#' ! /2/#' /520' </#' ?1224/<' 7' 1<0' 4151' /A49#' 4' 3' 4'' 2/?12C' 7'./' ;C/'78' ;AC45=.1?#' 3 ! /2575#' 2' /A2/120#' 44' Q' 4'' 9/ /2'' 7'./' 129'78' 15A./' /2#' #'

! 4A 72' ?1</;'' #' ;C/'78' 1>70#' .4'' 62/6121'475'' 872' :12#' 44' 3' /1';2/'' A75A/2/<' @/ : //5'.4?' 15<' ./'1994/'' 1=145'' ' 215A/#' ' /1<'' 15' 12?0' 1=145'' ' 7;975#' ' 14'/'' ./''4/=/'78' 7;975#' -#'

! 4994/2'#' 94K1@/.#'?4'2/''' 78' 49a' 941?' #'44' 3

! 42=4541#'?4'/21@9/'A75<4475'78'188142'' 45#' 45' 3 #'4' -' /.1>47;2'78' ./' ! 42=4541' 7?6150#' 3#' ' 2' /72=/' 15<4'& 9/ /2' 7' ./' 7?6150#' ' ./' 72<' 2/'4F </5 &''9/ /2'#' -#' ' ./'A79750' 2/>/2'' 7' ./' 27;5#' ' ./' 91''=7>/2572'78'./'A79750#'

% #' 7?7<72/#'.4'' </8/1' 78'1' 6154'.' 'J;1<275'45'./' /'' 5<4/'#'4' -' 14'/<' 7' ./'215C'78'1<?4219#' -' 1C/#' 42' '11A#' 5=94'.''1?@1''1<72' 1' ;245#'.4''>1247;'!<;4/'#'44' 4''</1.#' 19</5#' 475/9#'?107'2'78' ;545=F <75#'4' ' 4'' J;122/9':4.' 94>/2' 27?':/99#' Q' 19/'#' 245A/'78#' '75'78'$1?/'' #' ?/<19''72</2/<' 7'@/'' 2;AC'78'./#' 44' ' /A/4>/<'45'' 1/'1' 7 2/' 1?/'@0'./' 2A.@4'.76'78' 124'#' -' 27A914?/<'C45='@0'./'4 9/' 78'$1?/'' #' ' 4''1 /?6/<' 45>1'475' 78' A7 915<#' #' ' 199'' '4AC'78'./'?/1'9/'#' # ,' 42' 'A199/<'H./' 2/ /5</2#1' /8/1/<'1' ;</512</#' -3' 199/2#' <?;5<#'.4'' V 1A.124''1#& 4' #' - ' 4'' 9/ /2' 75'./2' ?12241=/#' - ' 4''>/2'/'' 75'./2' J;7/<k' -- ' 5<'75' 1A.124''1&'' :1445=8?14<#' - ' 4''>/2'/'' 7' 7./2' 91<4/'#' -0' 4'' 15':/2' 7' ./' 7;5/''' 78' ;5</2845<#' - 4''1;<1A47;''15':/2' 7'$1?/'' #' 3' 4''945/'' 7' 72<' /4A/'/2#' 3' 1994'#'$7.5#'./'$1A7@4/'6/5'475/2#' 44' 19'199#' 215A4'#'.4'' 9/ /+' 7' ./' 129'78' 15A./'/2#'4' a' 19'45=.1?#' 215A4''#'4' Q' 4'' 9/ /2''1'' "4?@79 75#' Q#' #' /5'75'15'/?@1''0' 7' 215A/#' ' 4'' </'A246 475' 78' ./' ;C/'78' 507;#' ' 4''A7?6914 5'78' ./' '?1995/''' 78'.4''45A7?/#' -' 4'' >4=4915A/#' -' /'61A.'827?'./' W;//5' 7'.4?#'2/'6/A45=';/2'?12F 241=/':4.' & 507;#' -' 5 /2F >4/:' :4.' 1./245/'</' /<4A4#' 3' 75>/2'1475':4.' /' 740#' 4''<4884A;94/'' :4.' ./'2/F 94=47;''A2;69/'' 78' ./' ;C/#' 4'' 4995/''#' #' @145'' 9/1>/'78'1@'/5A/#' ' 4''A75>/2F '1475':4.' 1./245/'</' /<4A4#'1'' 7'./2'07;5=/'' '75#'./' ;C/'78' 9/5{75#' Q' .4946' 0<5/0'2/F A7??/5</<' 7'.4'' A12/'@0' /4A/'F /2#' 19'45=.1?&''<1;=./2' 215A/''#' 5'2;A/<' 7'910'./' 5=94'.'7645475'78'./' 12.797F ?/:'?1''1A2/'@/872/' .129/'' %B# 3' @145''1'A760'78' 1 @479;'' 75' 47'<724</'' 872' 42' .7?1'' ?4.#' /2' 827?' 42' .7?1'' ?4.#' - 19'45=.1?&'' 975=45='' 7' /'A16/' 827?' 215A/#' - 4''9/ /2'2/'6/A45='1'@70' 78'945/5'872' 120' ;12#' - 4'' 2/;25'7' 5=915<#' - ;945/'78' .4'';@'/J;/5 A12//2#' - 4'': 499#' -- 4''8;5/219#'-3' 19'45=.1?#' 215A/'#?1224/<' 7' 42' .4946' 0<5/0#'4' /2'';@'/F J;/5' ?12241=/'' 55;40' '/ 9/<'@0'./2'81./2'75'./2#' -- 12@/AC#' /2C45#''720'78#'1'' 79<'@0' 72<' 1A75#'4' + 72C#' 4A.12<#' ;C/'78 12<#' /<#'45' ./'6499720#'44' 12.1?#' 49941?#'7667'/'' ./'?12F 241=/'78'./' 245A/'' 1.1245/':4.' 245A/' /520#', 1</' 4'.76' 78' 75<75'15<'' //6/2'78'./' 2/1' /19#',' 5<'';@'/J;/590' 2A.F @4'.76'78' 15 /2@;20'15<' 72<' .15A/9972#', 4'' 2/1'75'' 872' 7667'45=' ./'?12241=/#' #' 4''</1.#' 12;4AC#' <;12<' 915 1=/5/' 129' 78#'.4''A9142'7'./' 5=94'.'.275/#' 4' /@/1</<84 9' /1'75'' 872' .4''</1.#'-

"

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PQ

\ : 5

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27 : 48

2 % ! Q

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